

1/60

Figure 1  
 Prior Art

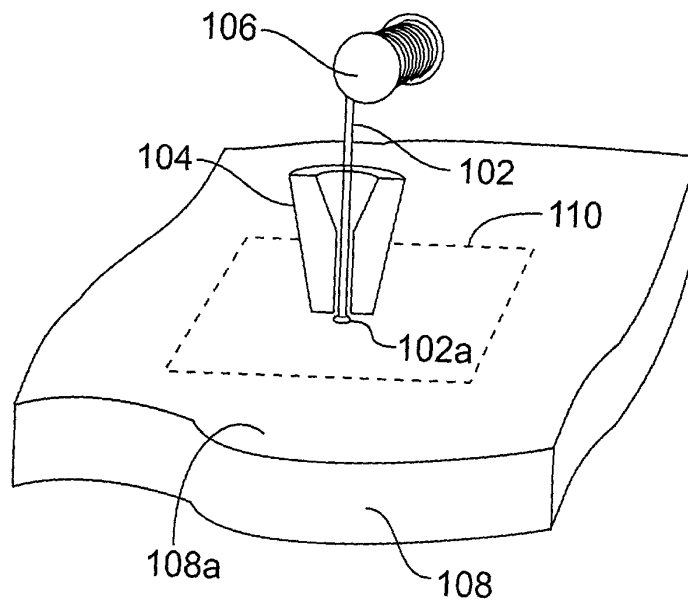


Figure 1A

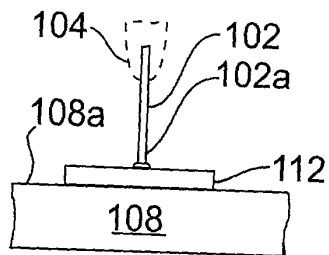
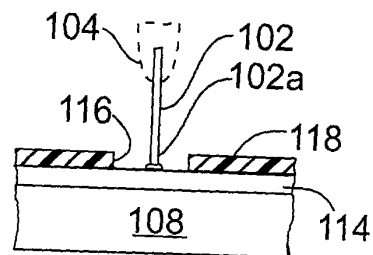


Figure 1B



2/60

Figure 1C

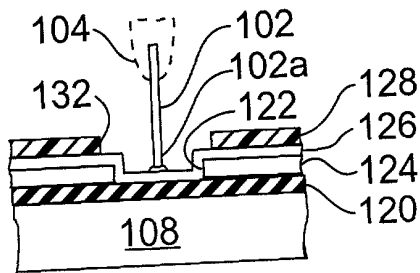


Figure 1D

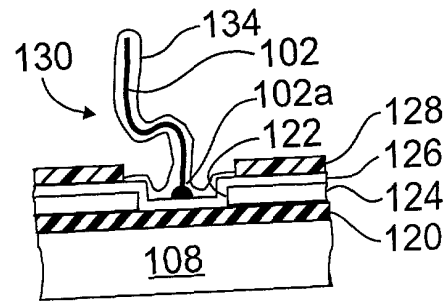


Figure 1E

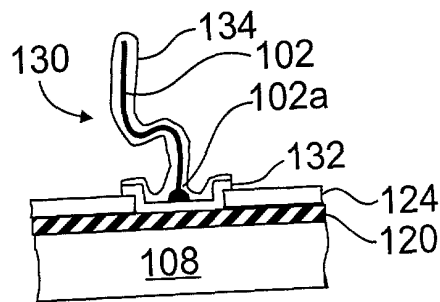
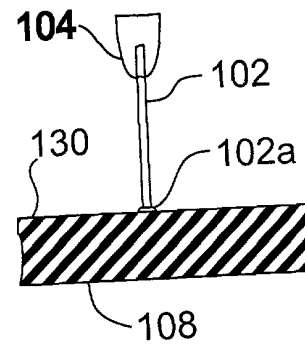


Figure 1F



The diagram illustrates a laser processing system. A control unit (222) is connected to three processing units: POSN (220), ULTR (224), and EFO (234). These units are connected to a central shaft (202) via dashed lines (226, 230, 232). The shaft has a top cap (206) and a conical section (204). A light source (238) emits a beam (236) through a lens (236) onto the shaft, with distances 'd' and 'c' indicated. The shaft ends in a probe (202a) that interacts with a workpiece (208) on a surface (208a). A coordinate system (x, y, z) is shown at the workpiece.

4/60

Figure 2A

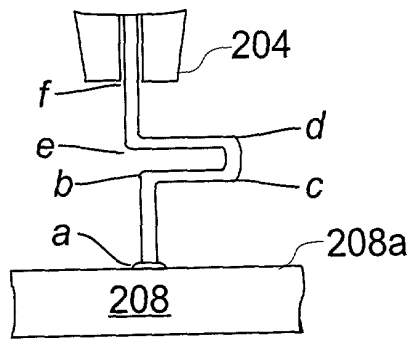


Figure 2B

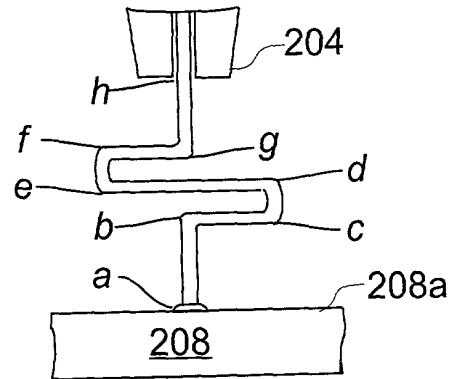
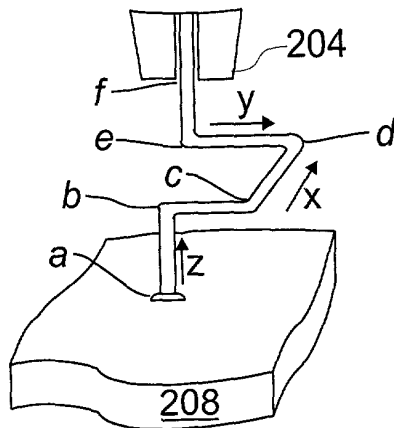


Figure 2C



5/60

Figure 2D

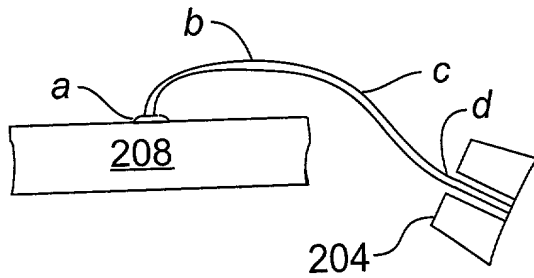


Figure 2E

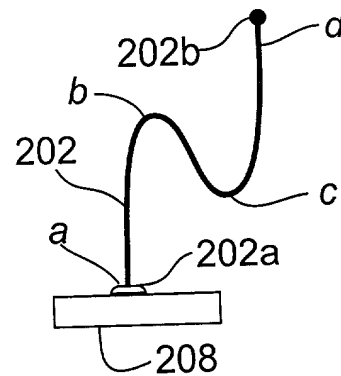


Figure 2F

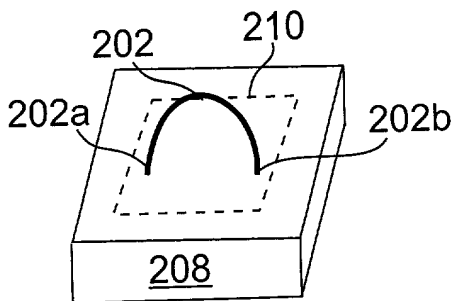


Figure 2G

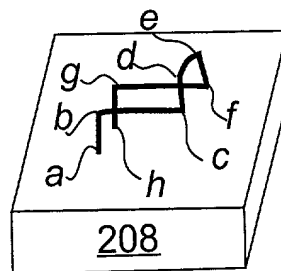
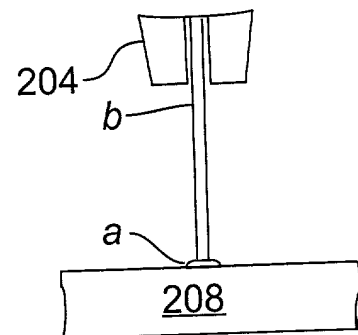


Figure 2H



6/60

Figure 3A

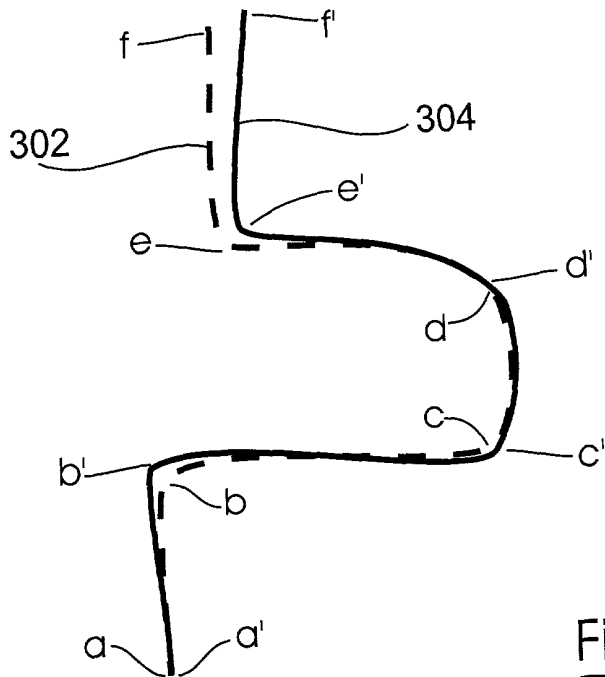
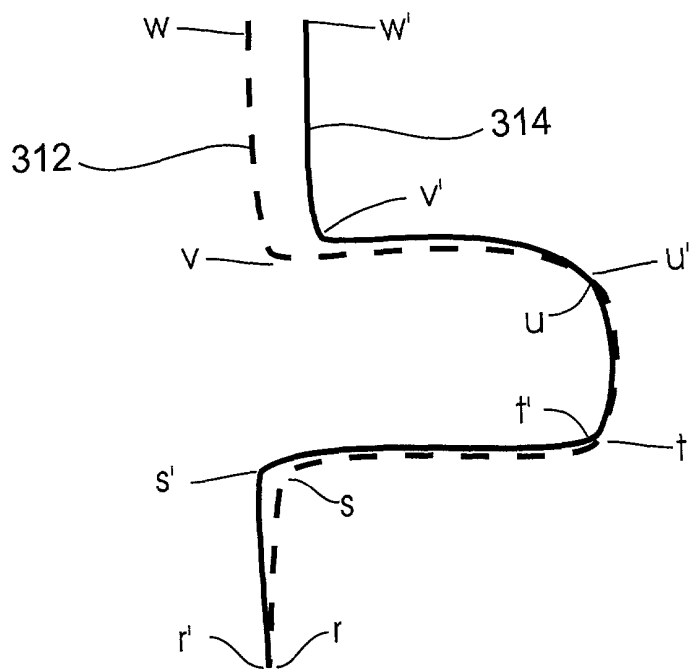


Figure 3B



7/60

Figure 4A

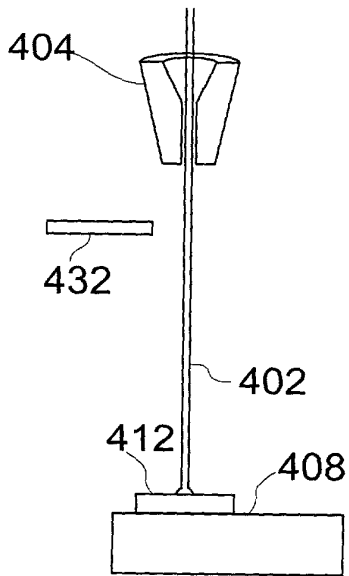


Figure 4B

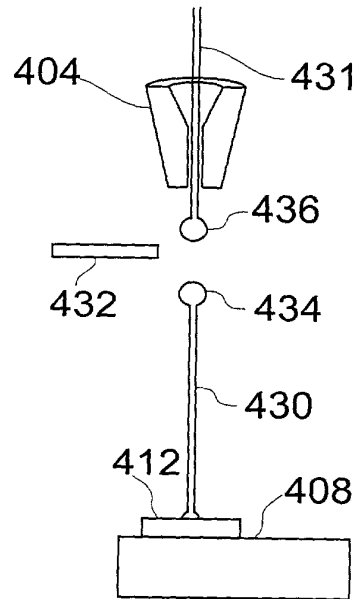


Figure 4C

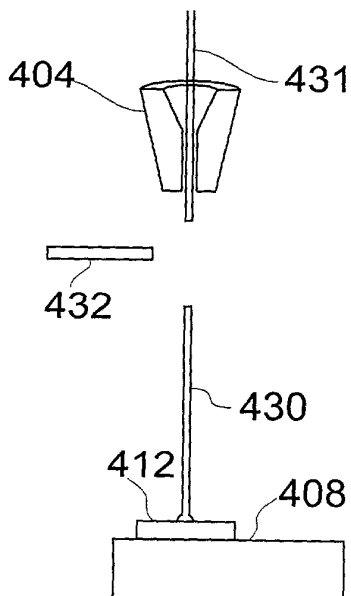
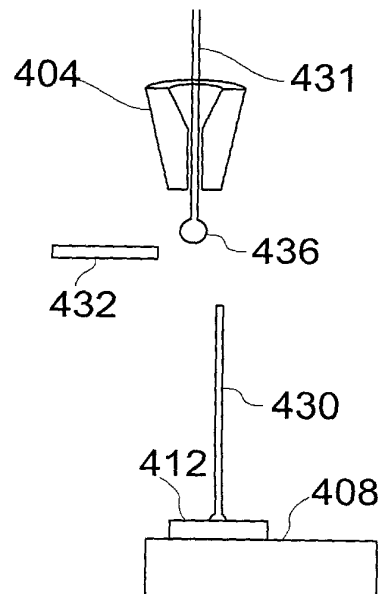


Figure 4D



8/60

Figure 5

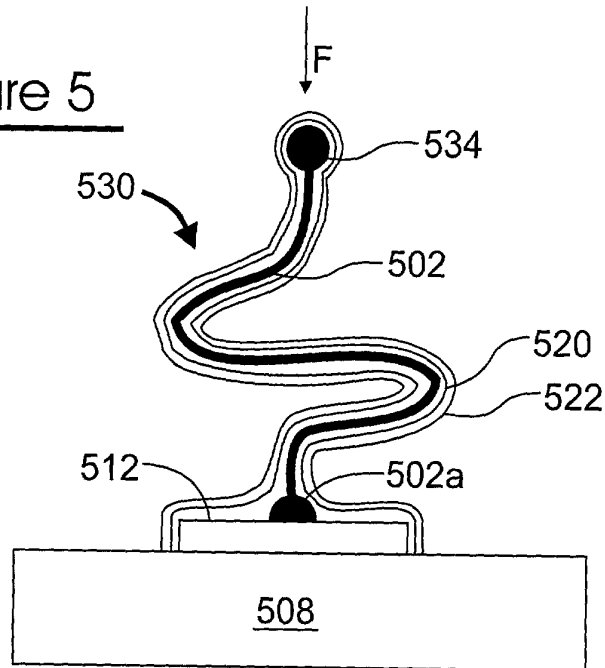


Figure 5A

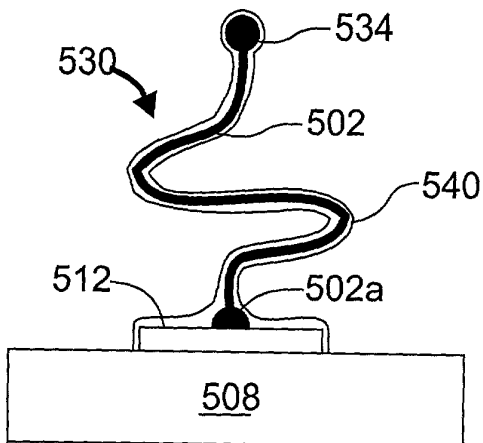
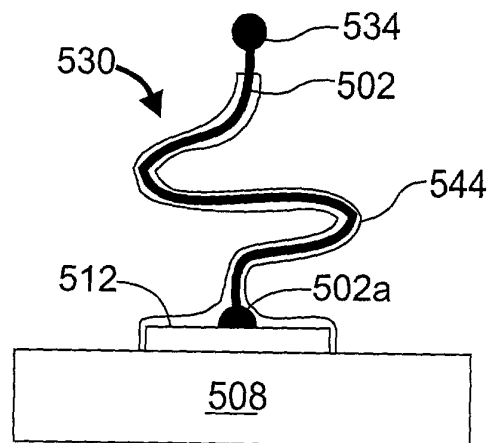


Figure 5B





9/60

Figure 5C

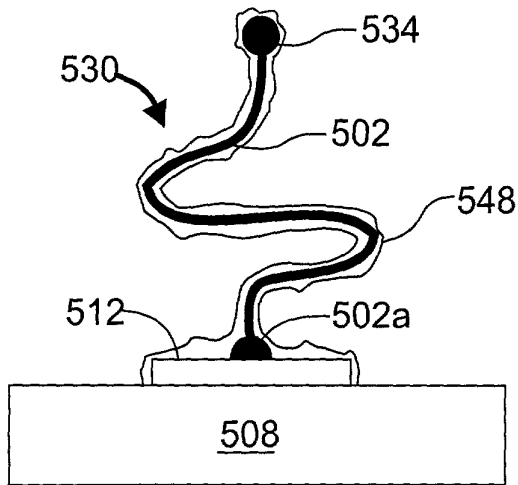


Figure 5D

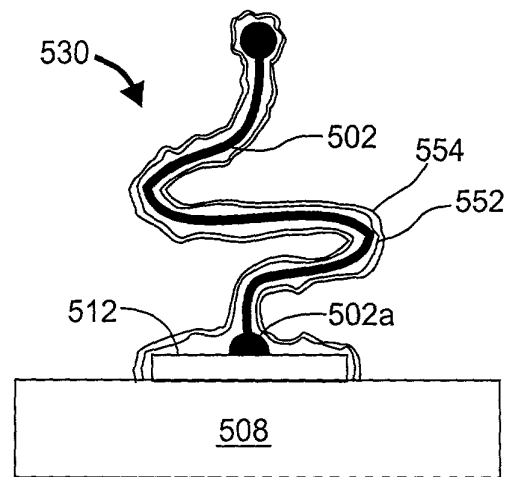


Figure 5G

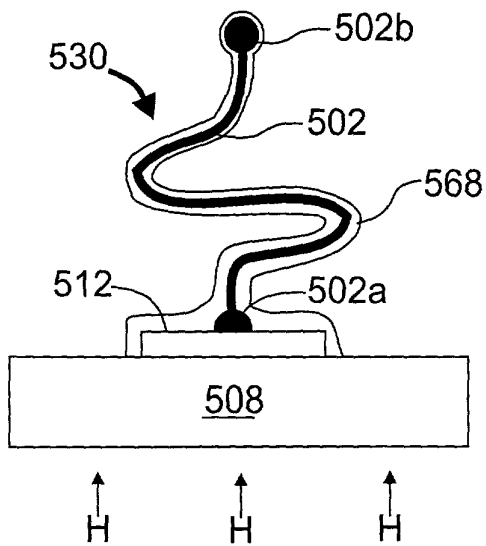
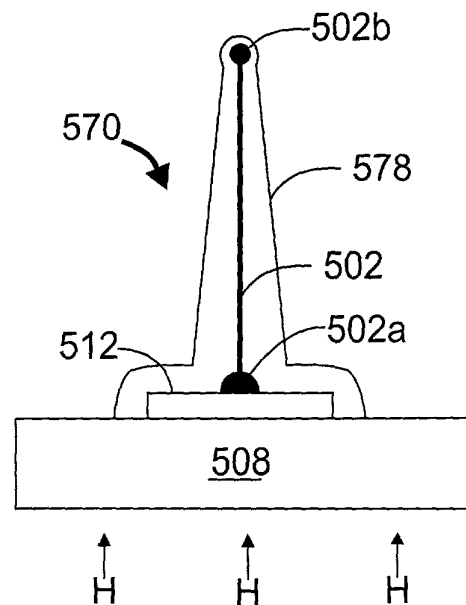


Figure 5H



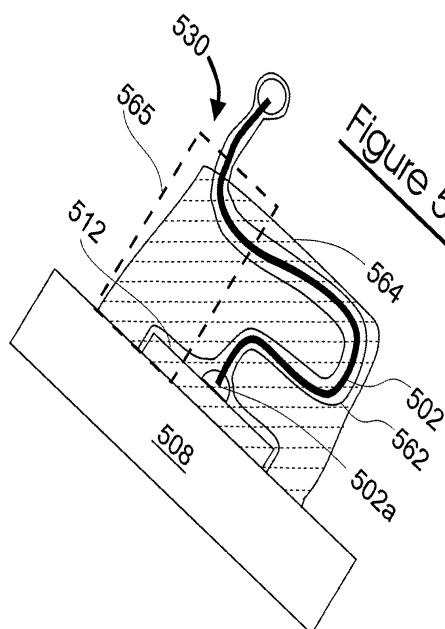


Figure 5E

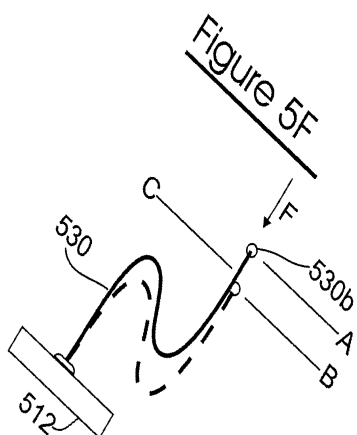


Figure 5F

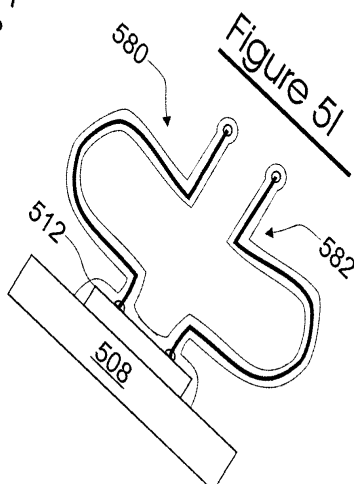


Figure 5I

11/60

Figure 6A

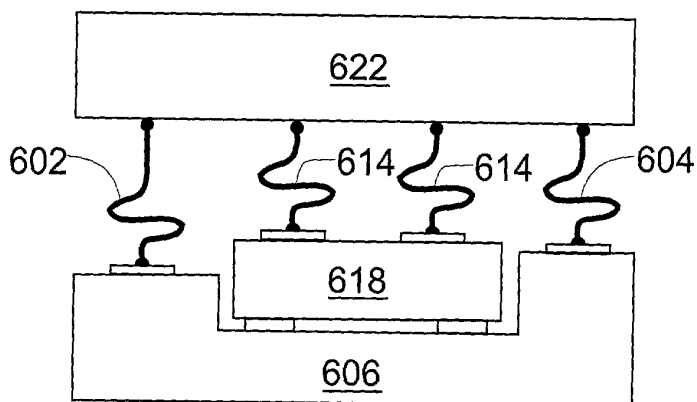


Figure 6B

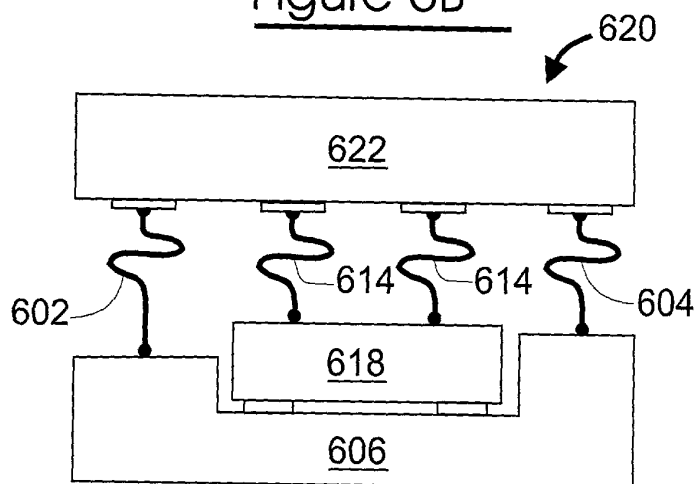
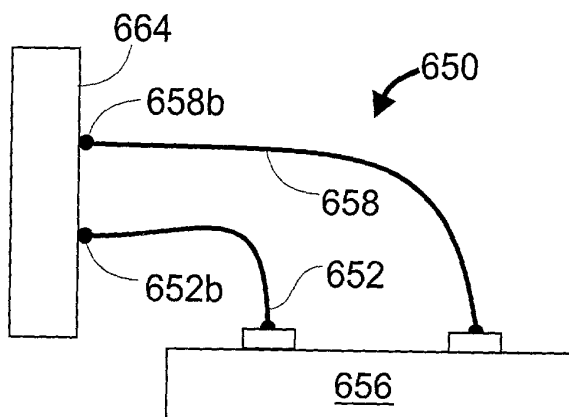


Figure 6C



12/60

Figure 7A

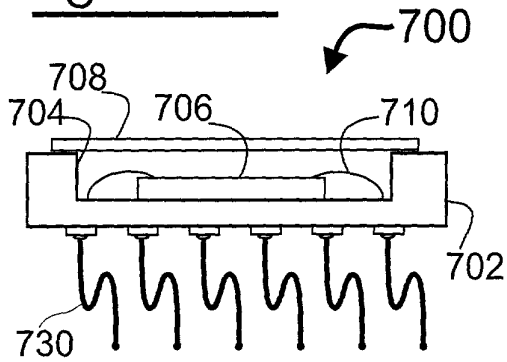


Figure 7B

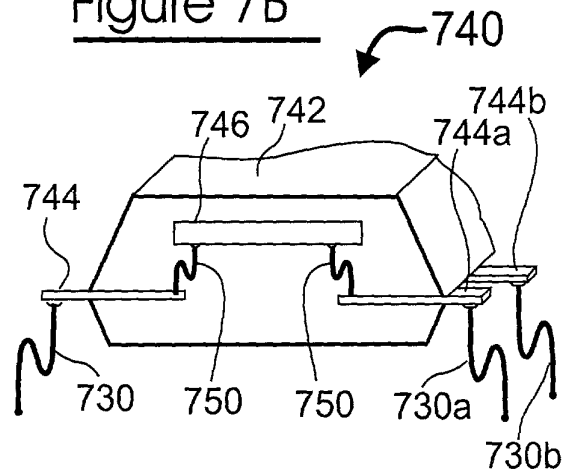


Figure 7C

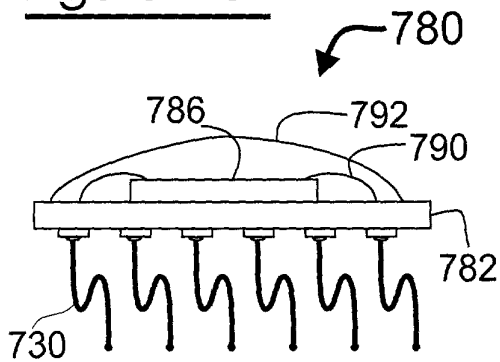
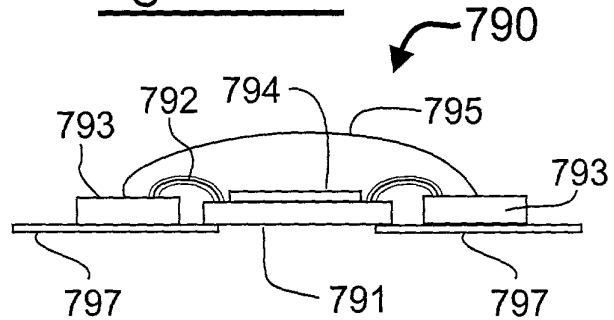


Figure 7D



13/60

Figure 8A

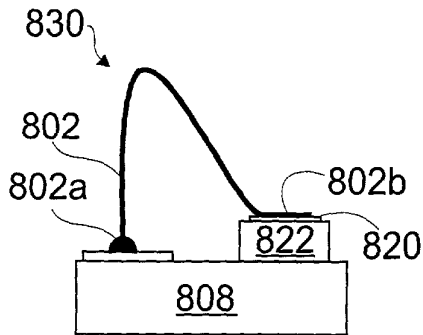


Figure 8B

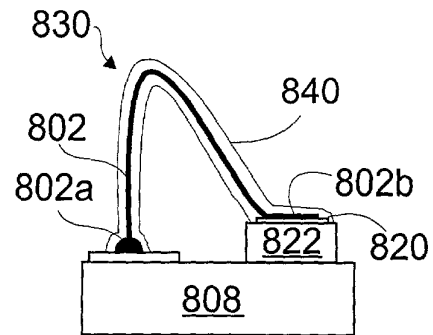


Figure 8C

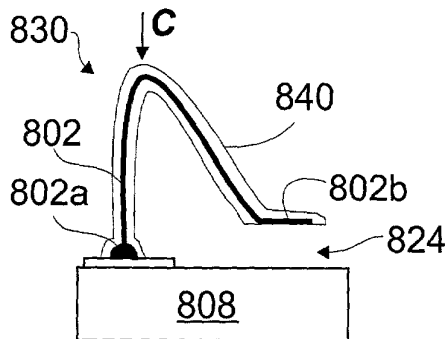
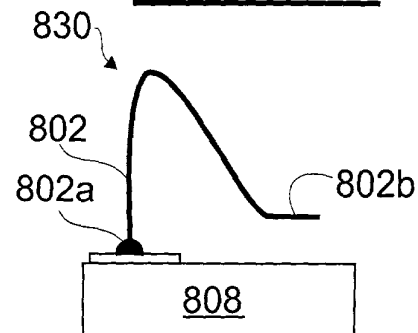


Figure 8D



14/60

Figure 9A

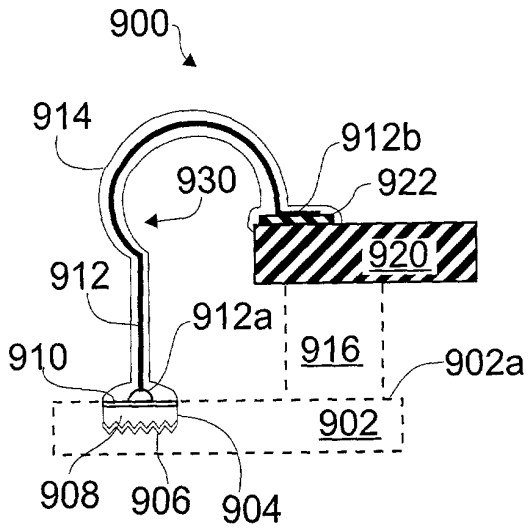


Figure 9B

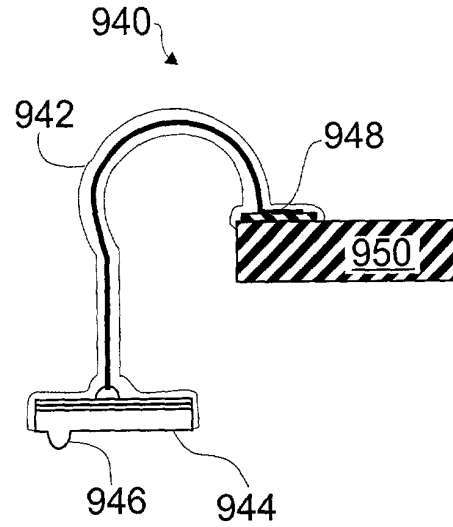
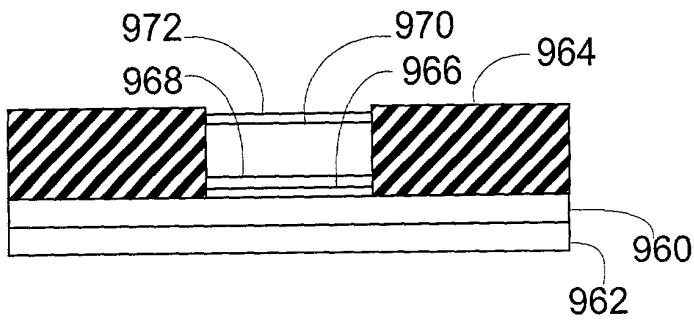


Figure 9C



15/60

Figure 10A

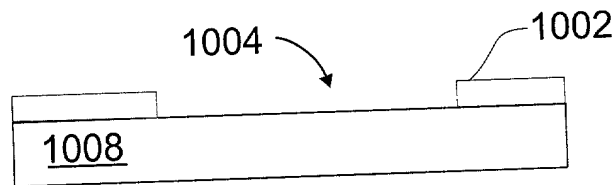


Figure 10B

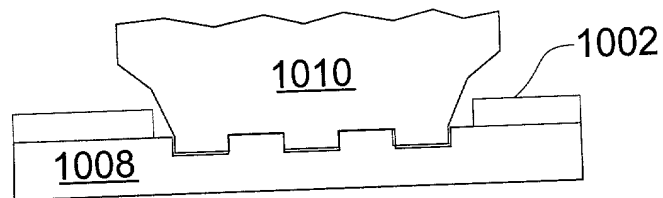


Figure 10C

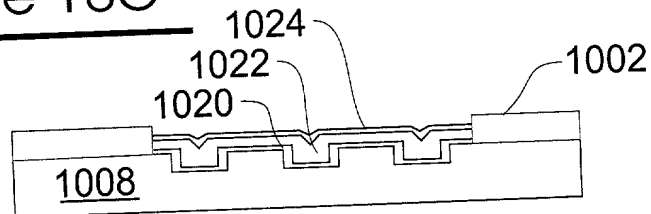
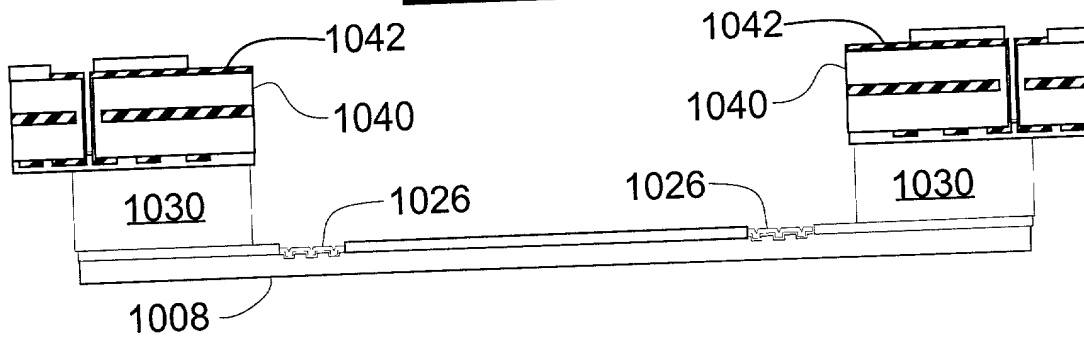


Figure 10D



16/60

Figure 10E

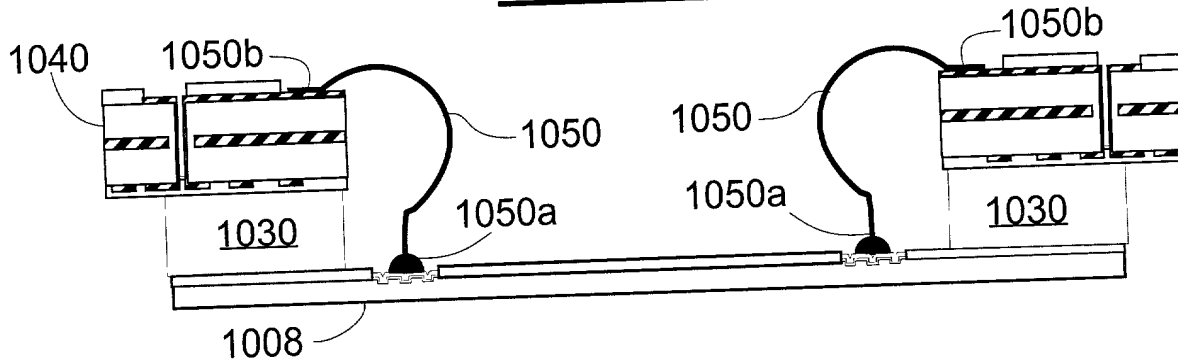


Figure 10F

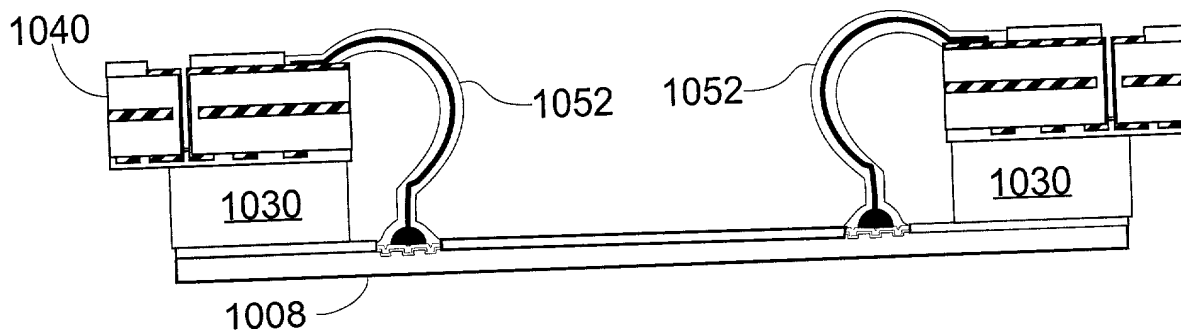
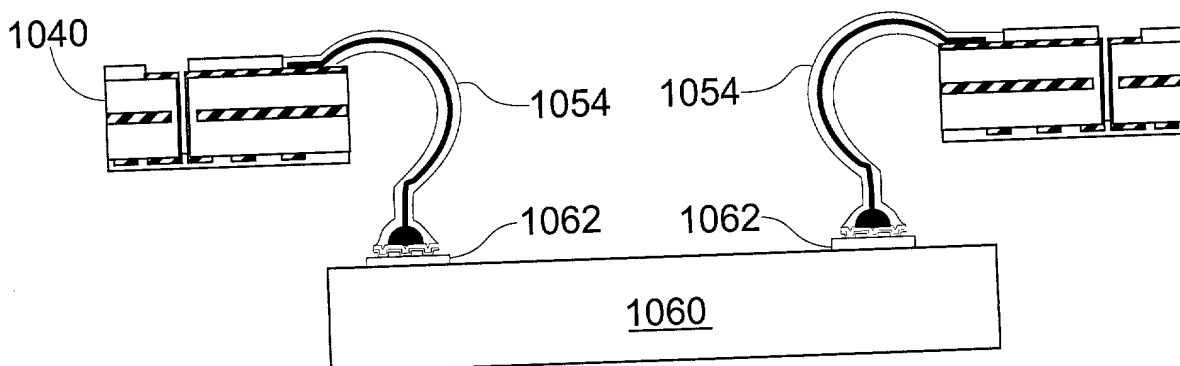


Figure 10G





17/60

Figure 10H

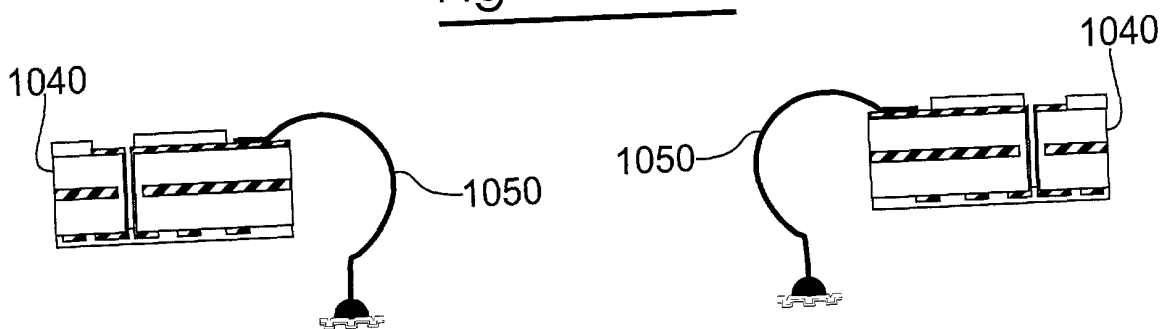
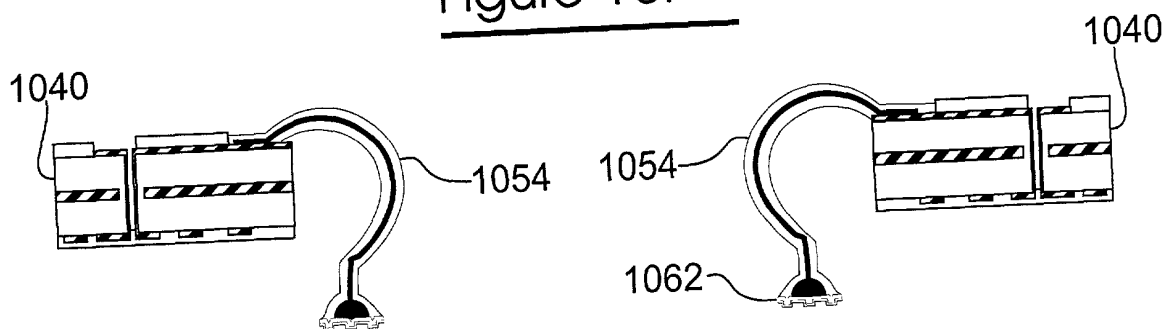


Figure 10I



18/60

Figure 10J

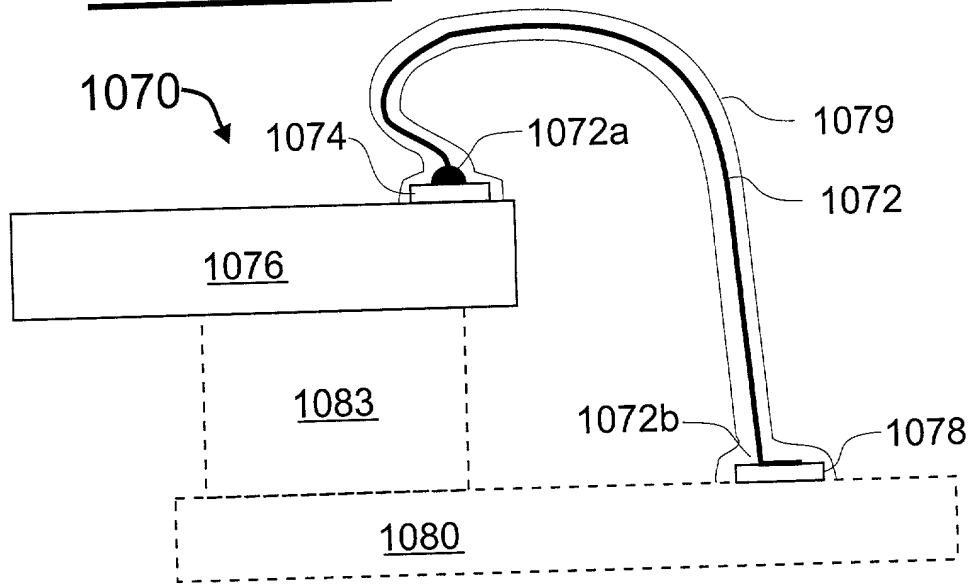
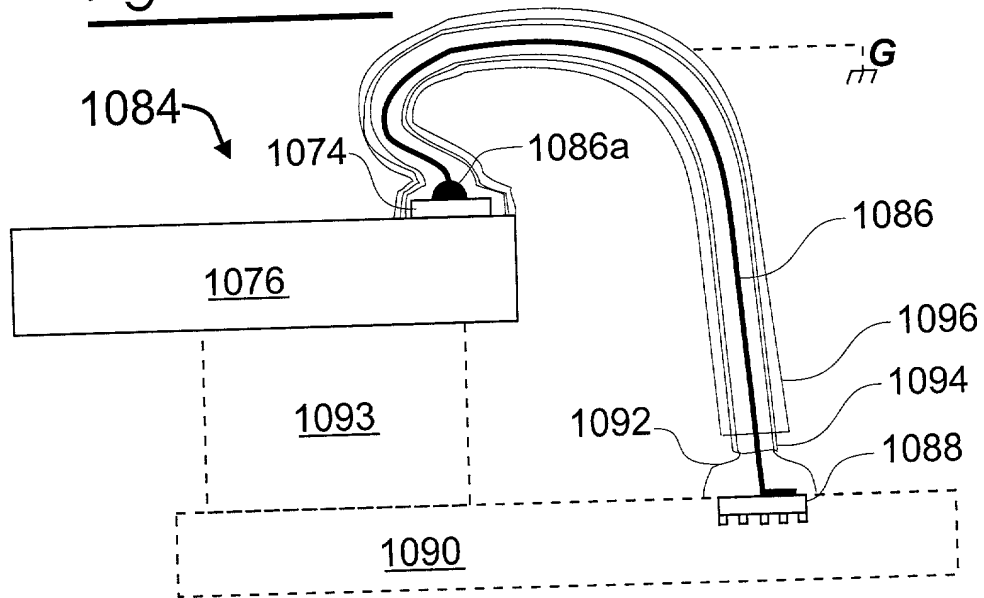


Figure 10K



19/60

Figure 11A

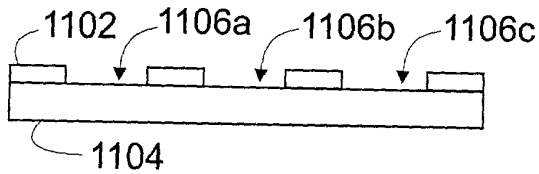


Figure 11B

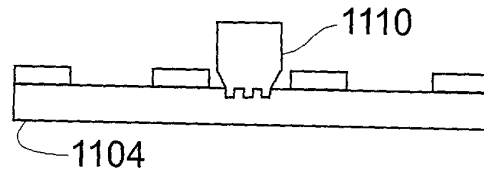


Figure 11C

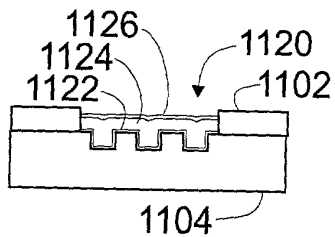


Figure 11D

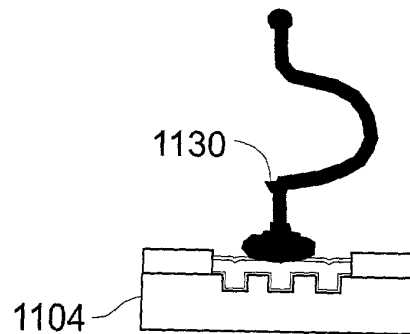


Figure 11E

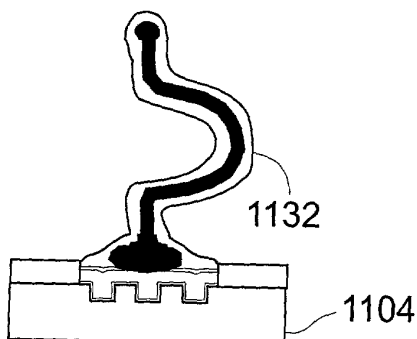
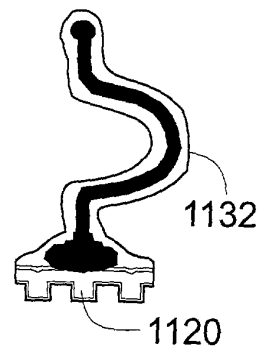


Figure 11F



20/60

Figure 12A

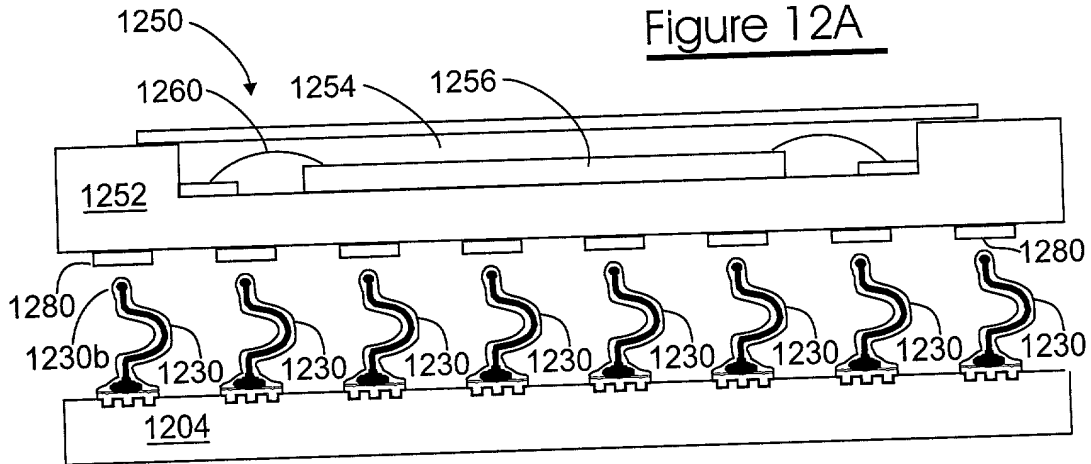


Figure 12B

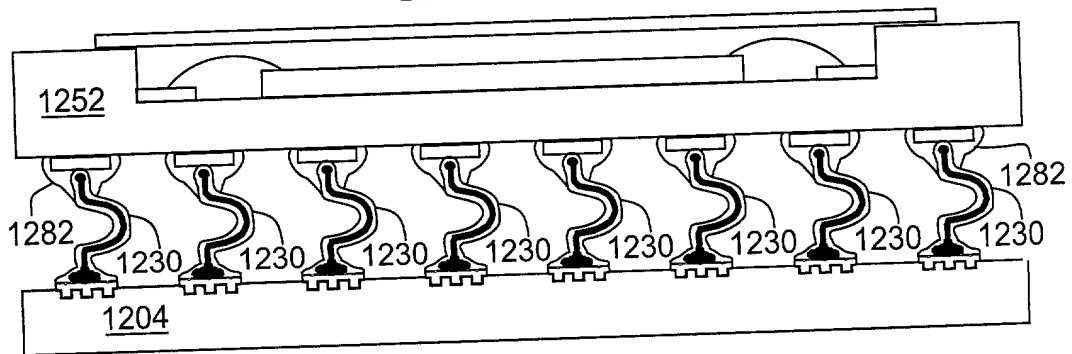
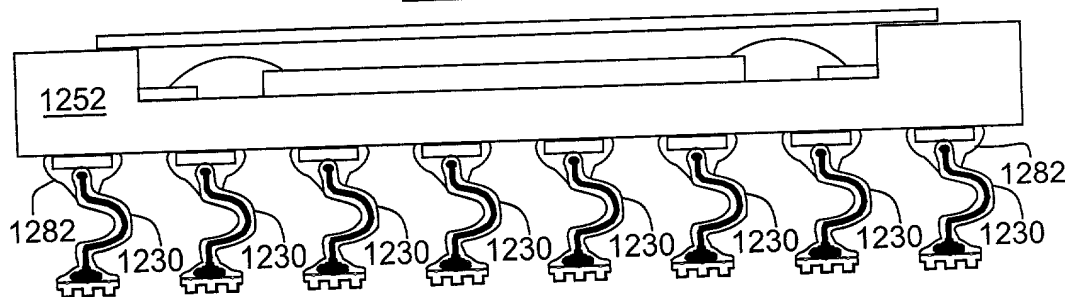


Figure 12C



21/60

Figure 12D

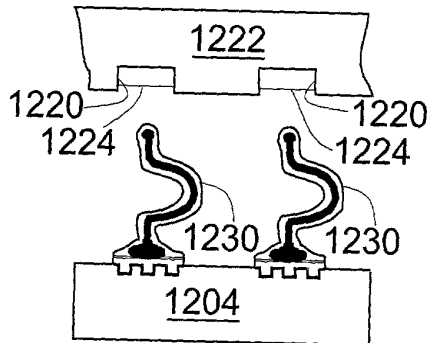


Figure 12F

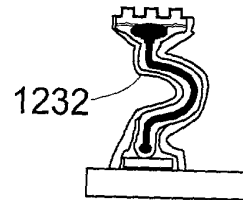
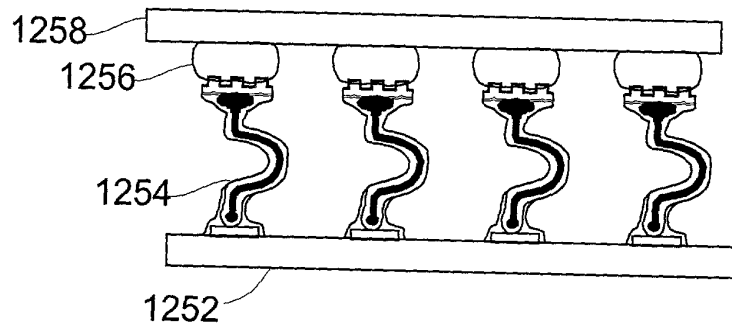
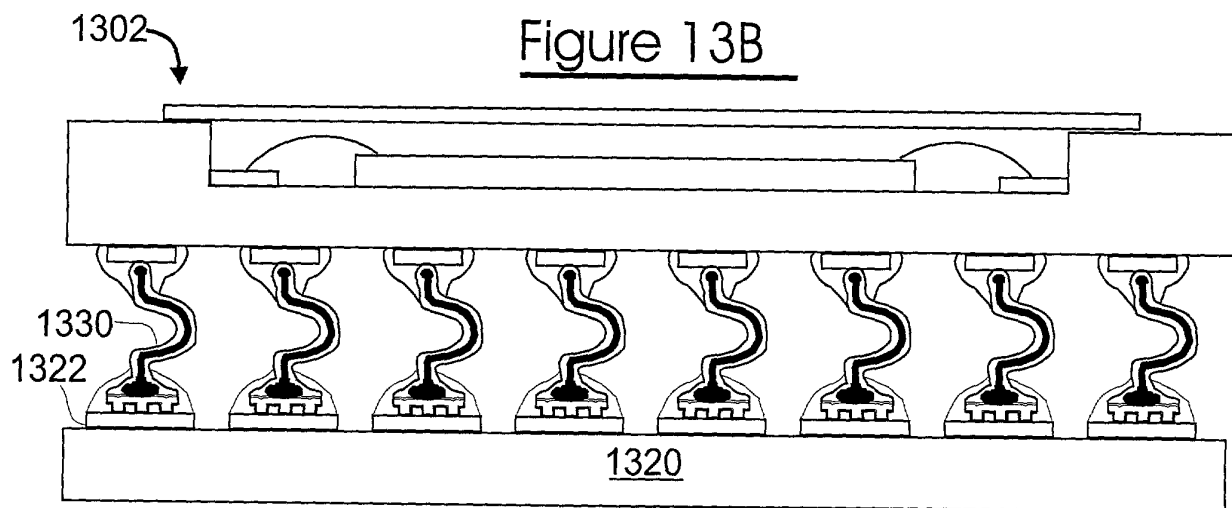
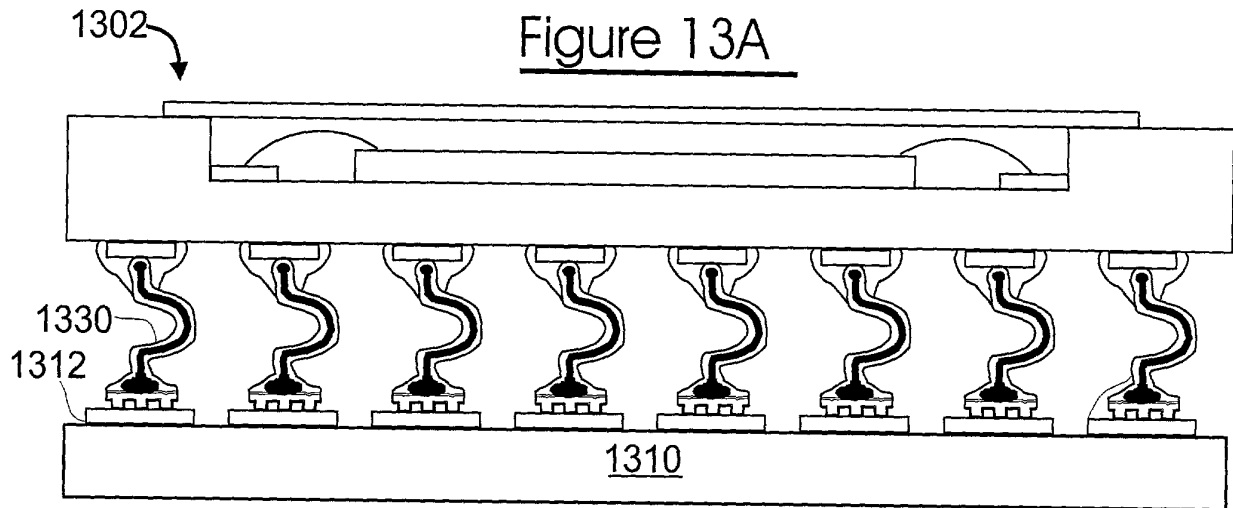


Figure 12E



22/60



23/60

Figure 14A

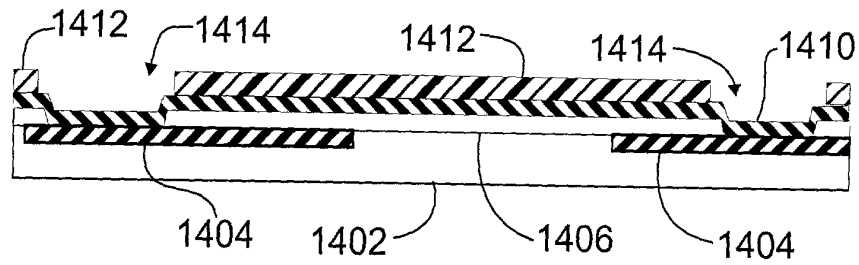


Figure 14B

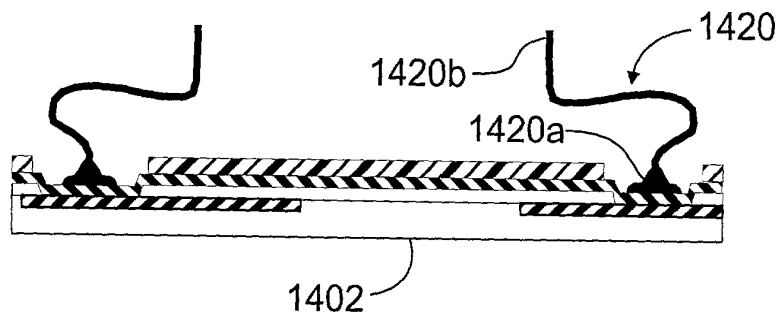
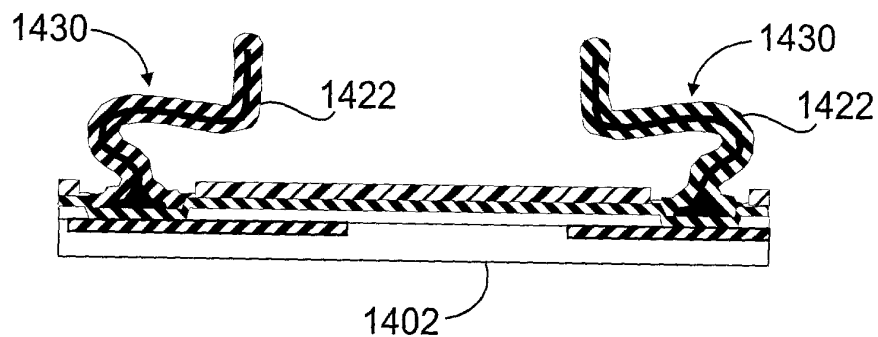


Figure 14C



24/60

Figure 14D

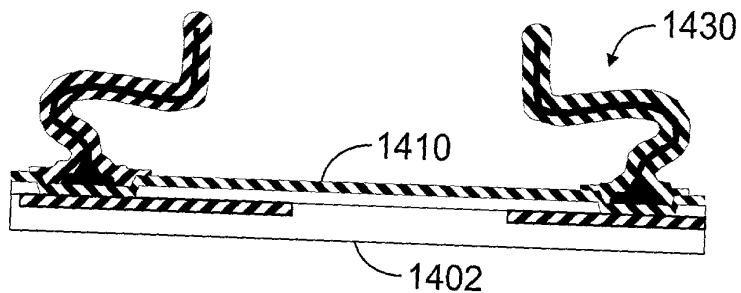


Figure 14E

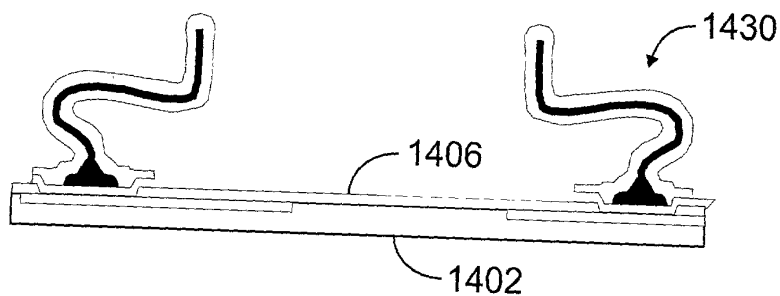


Figure 14F

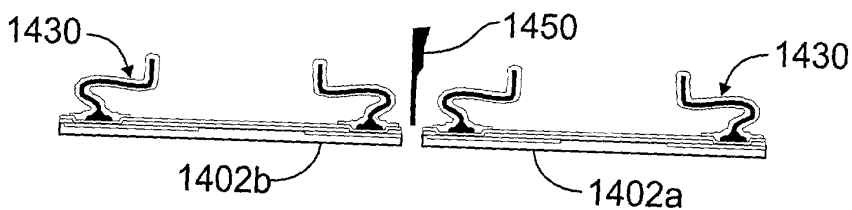
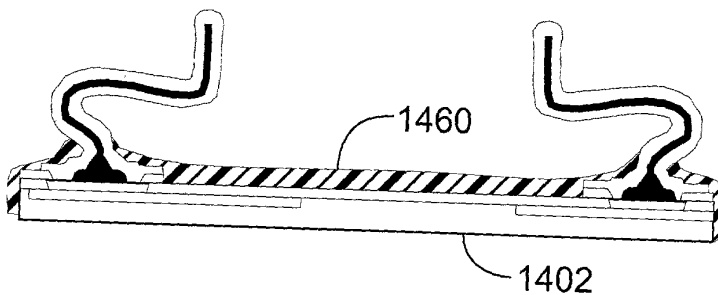


Figure 14G





25/60

Figure 15

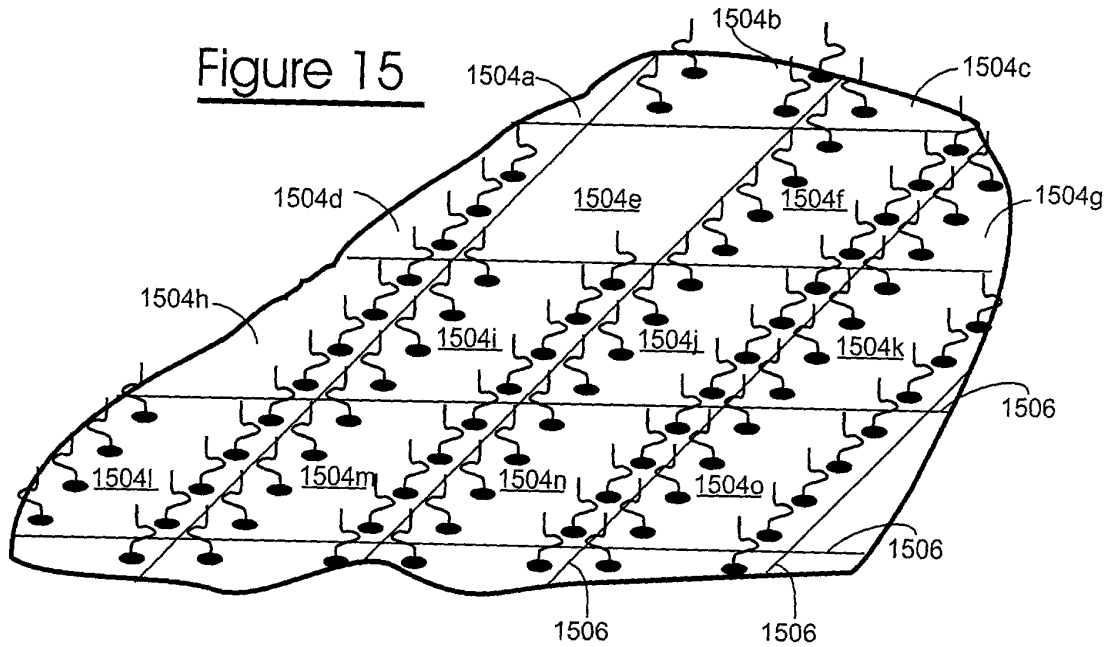
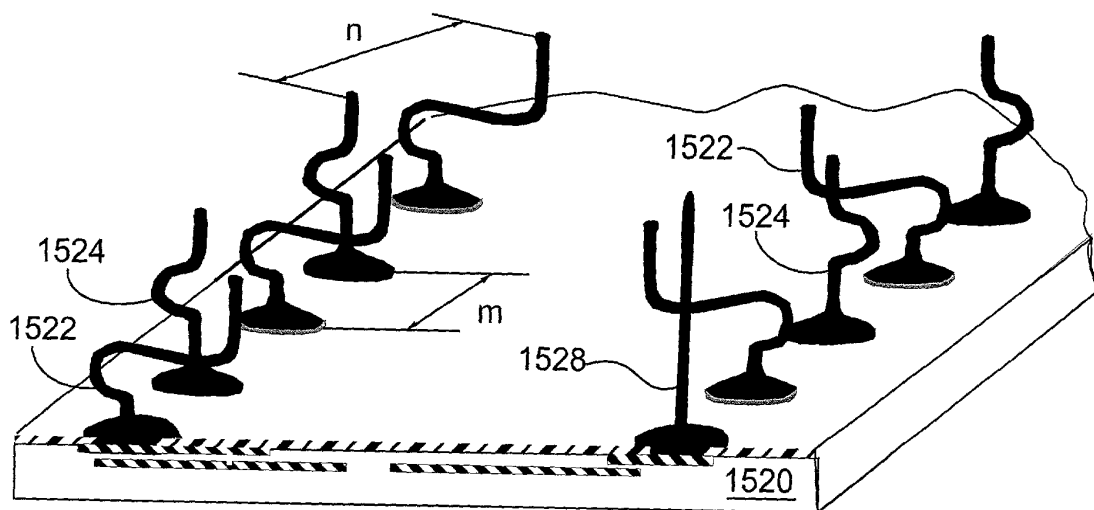


Figure 15A



26/60

Figure 16A

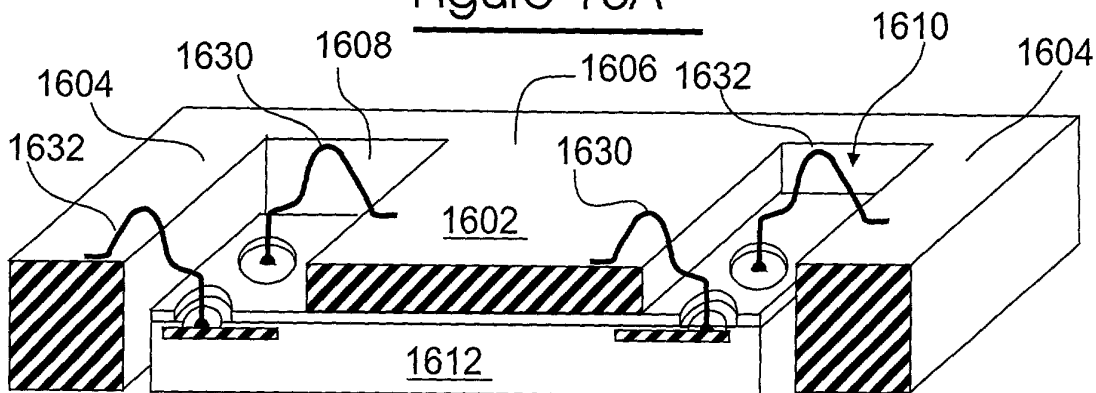


Figure 16B

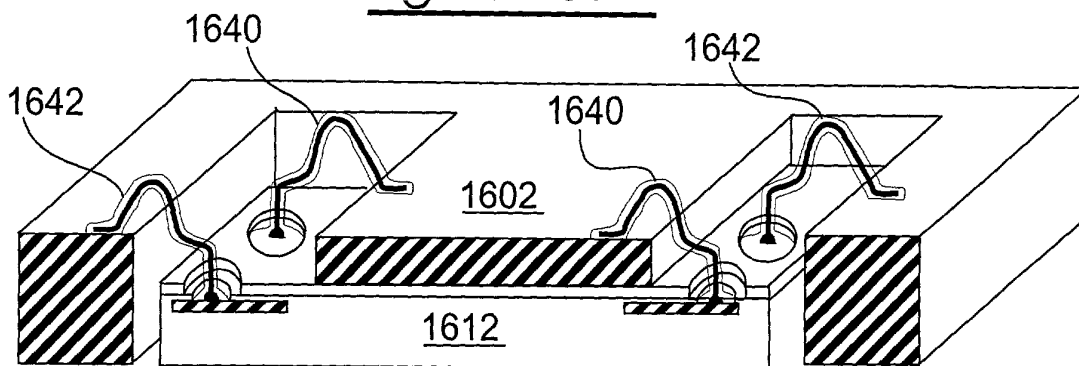
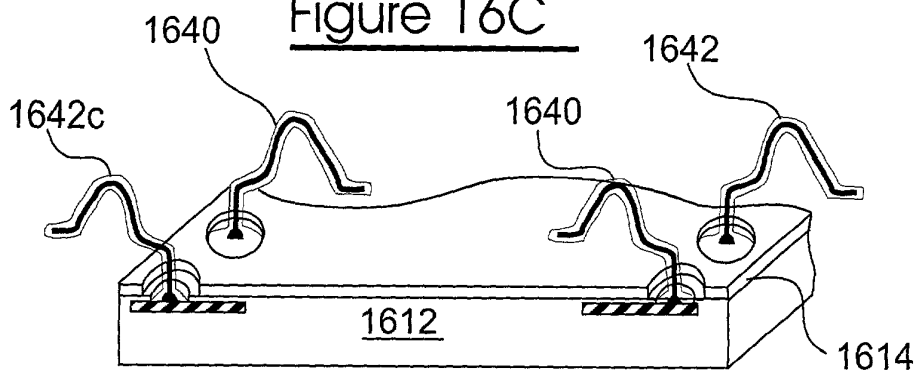


Figure 16C



27/60

Figure 16D

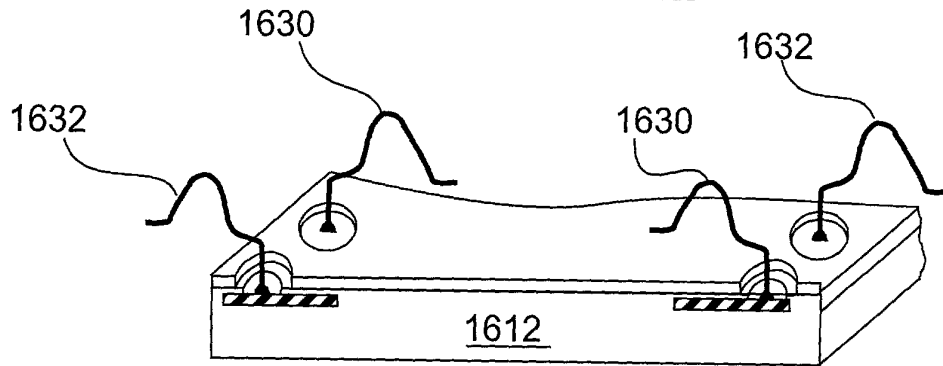


Figure 16E

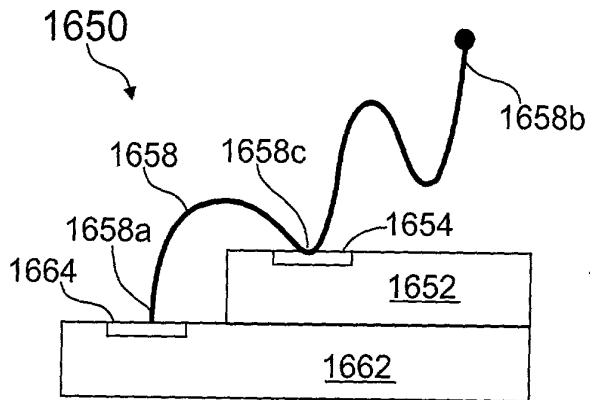
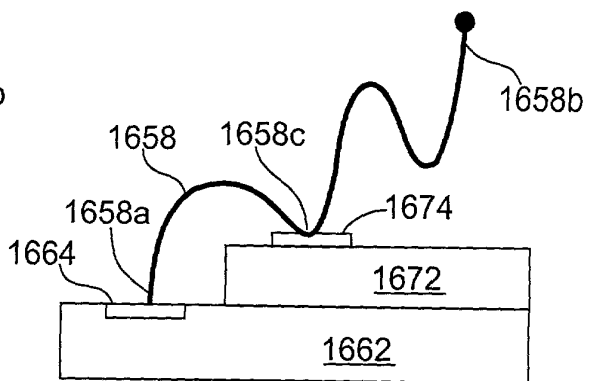


Figure 16F



28/60

Figure 17A

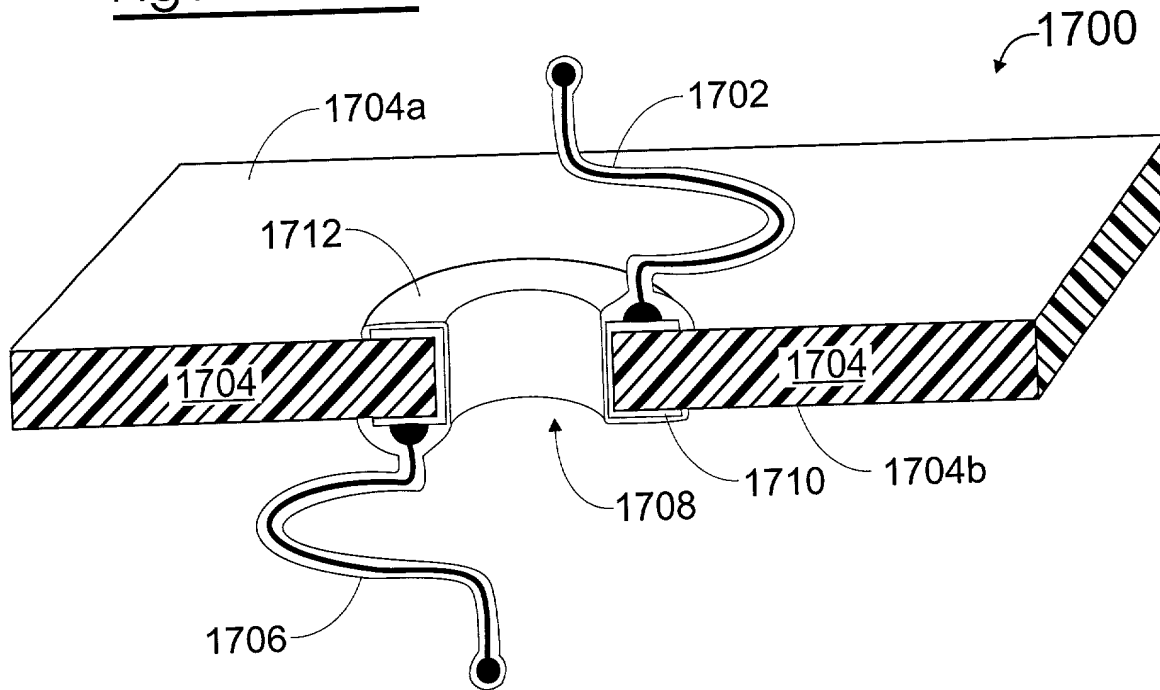
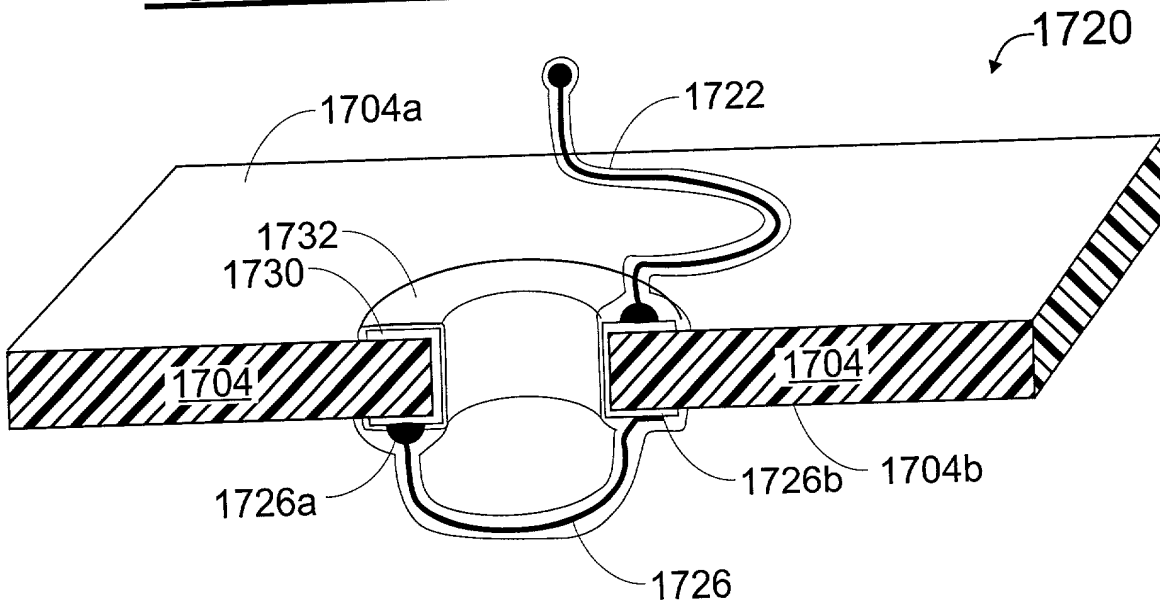


Figure 17B



29/60

Figure 17C

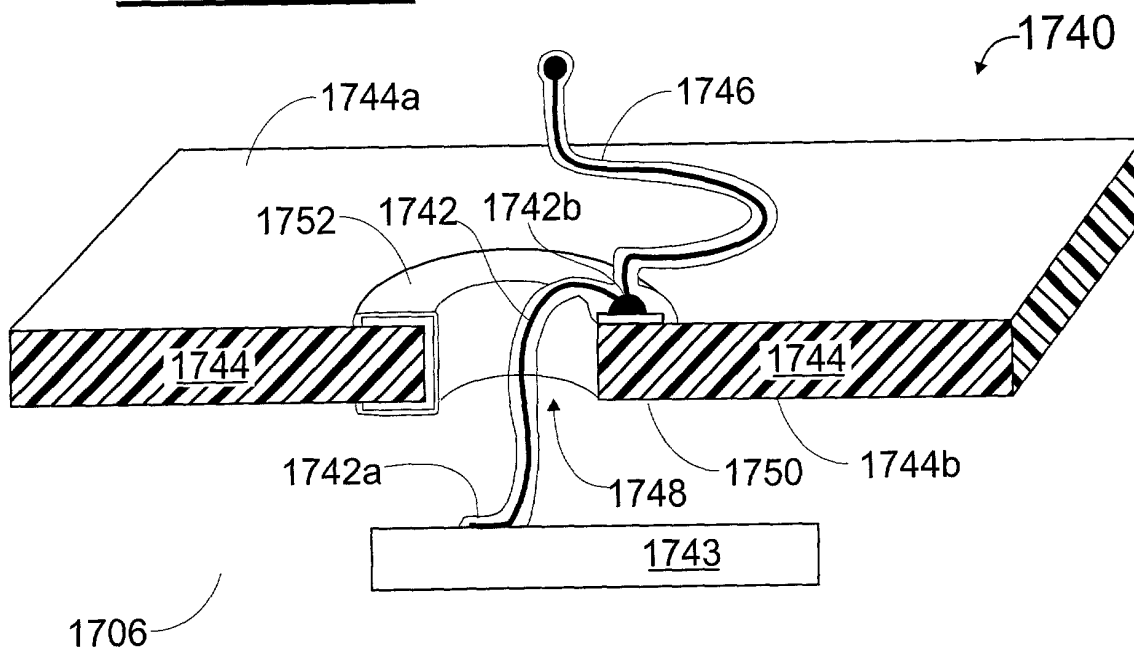
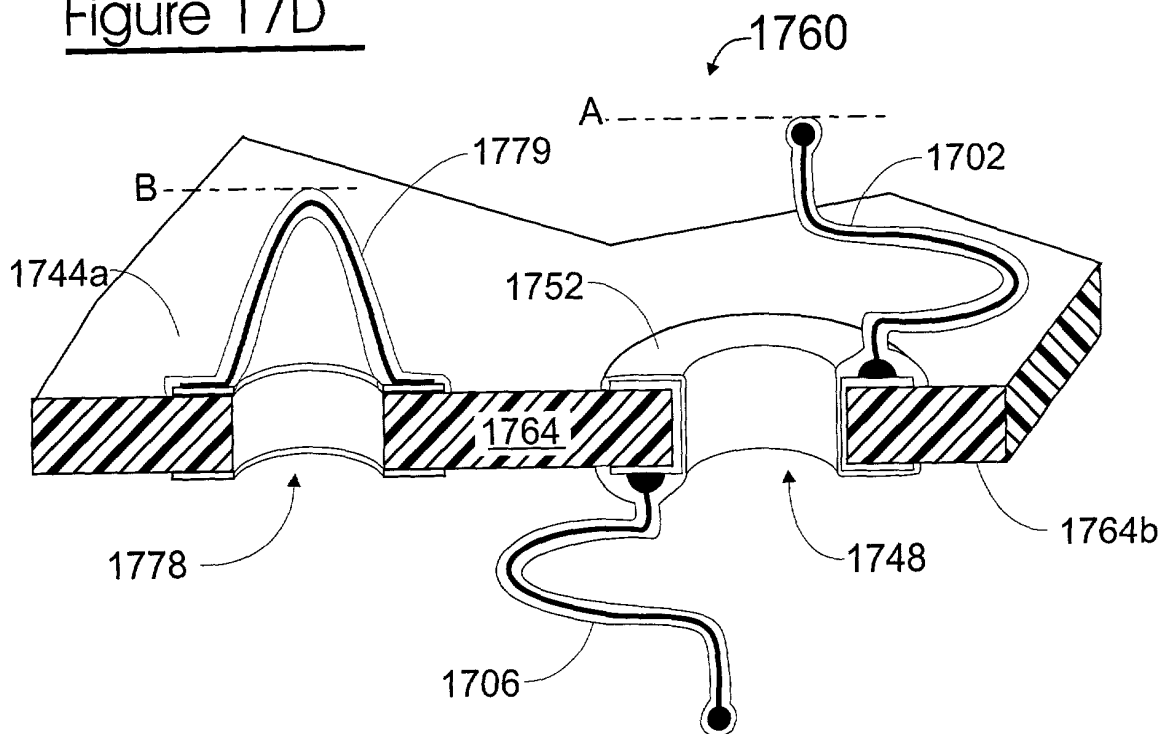
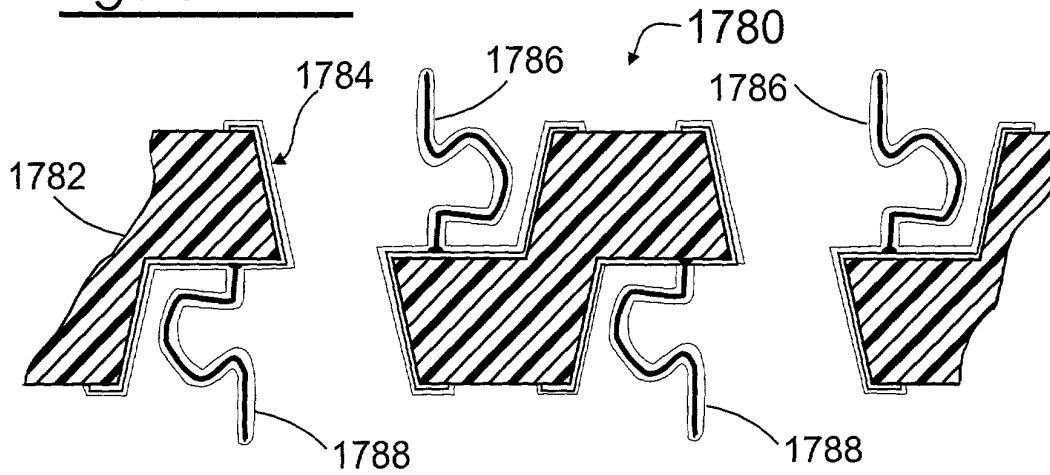


Figure 17D



30/60

Figure 17E



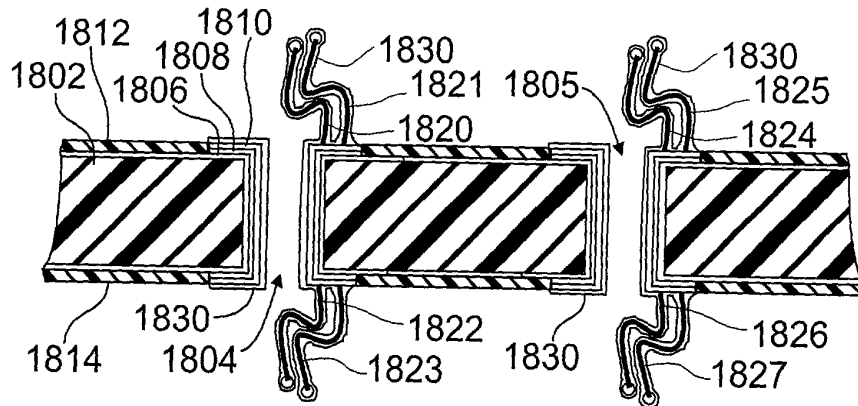
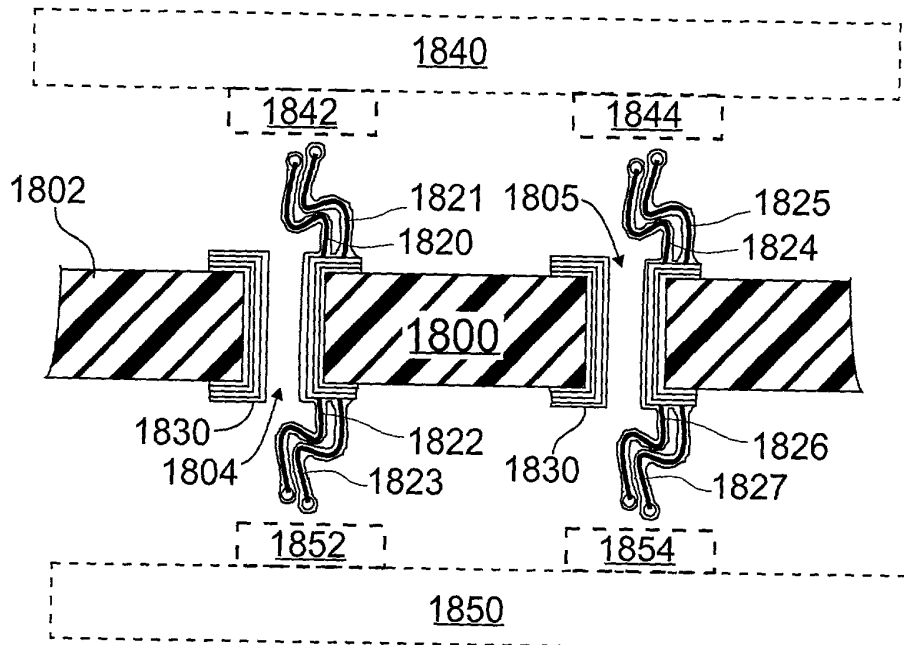
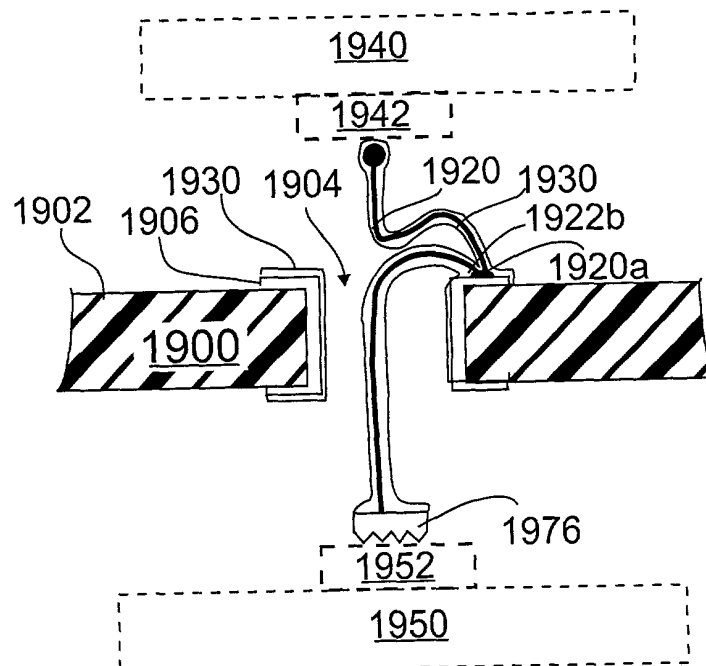


Figure 18B







33/60

Figure 20A

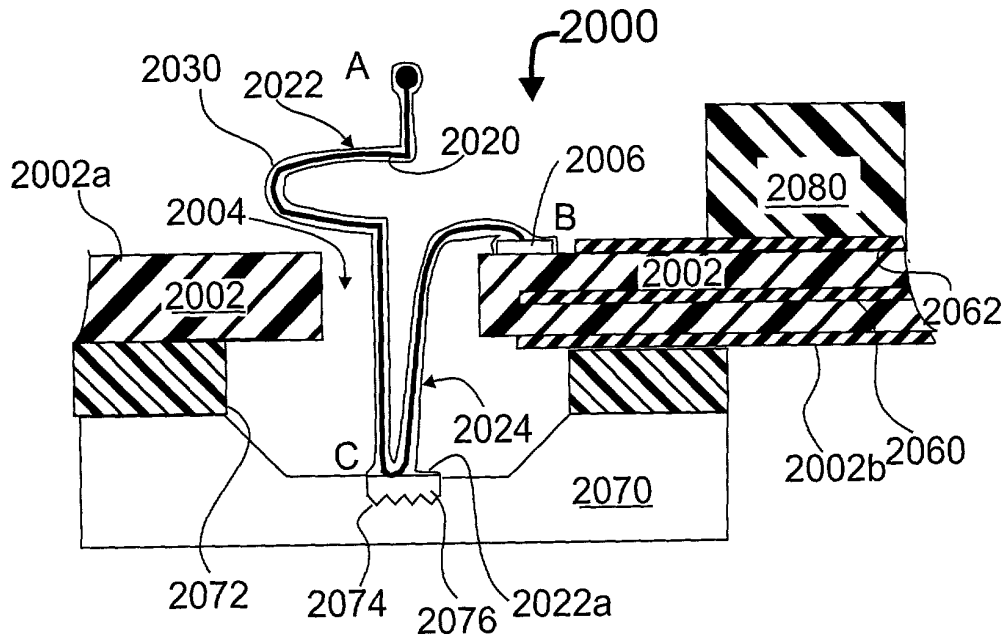
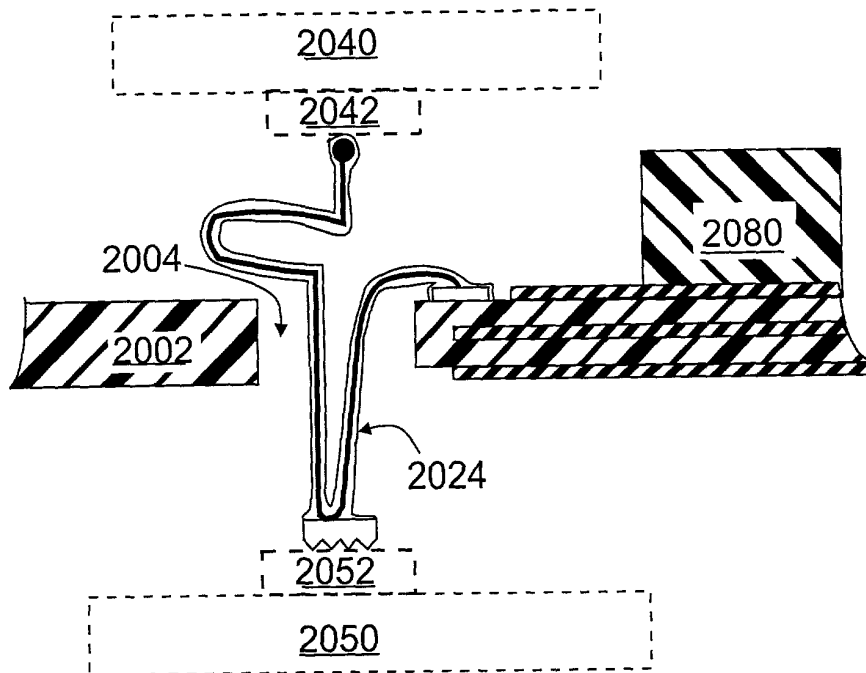


Figure 20B



34/60

Figure 21

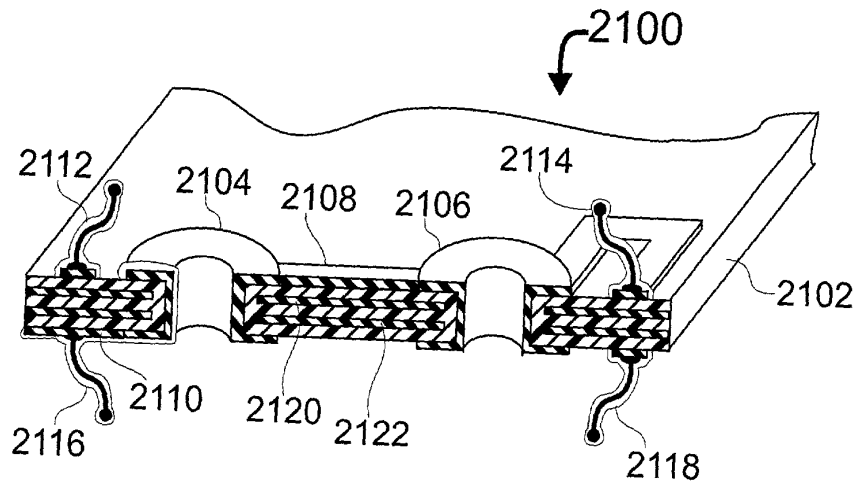


Figure 22D

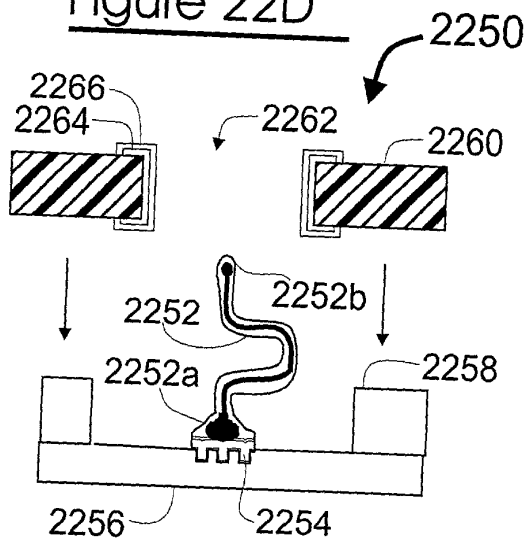


Figure 22E

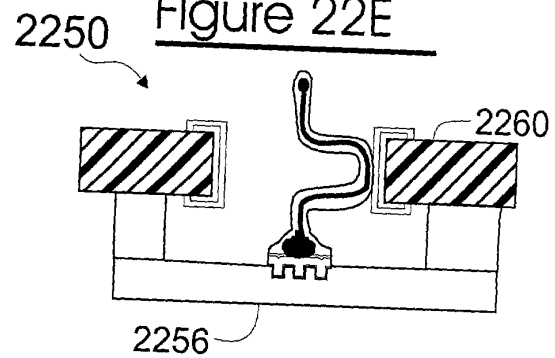
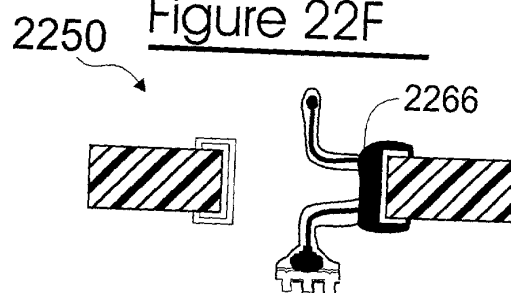


Figure 22F



35/60

Figure 22A

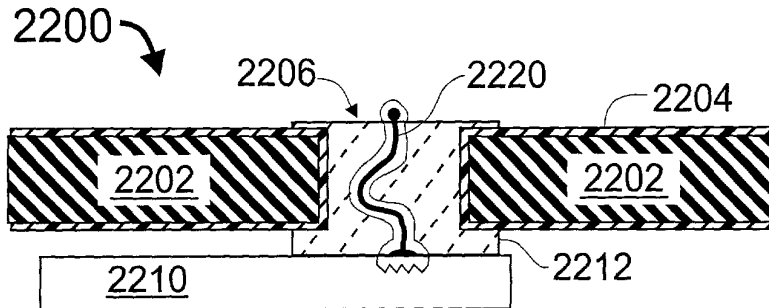


Figure 22B

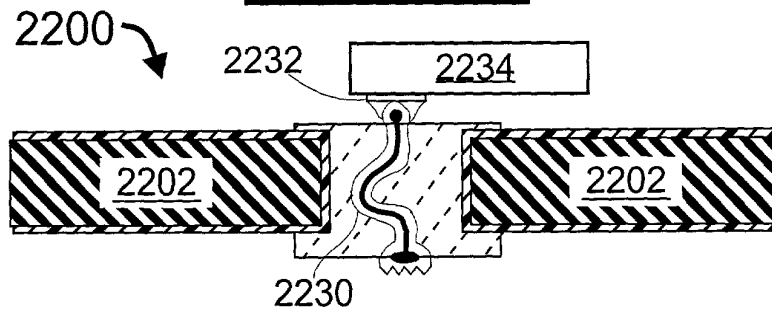
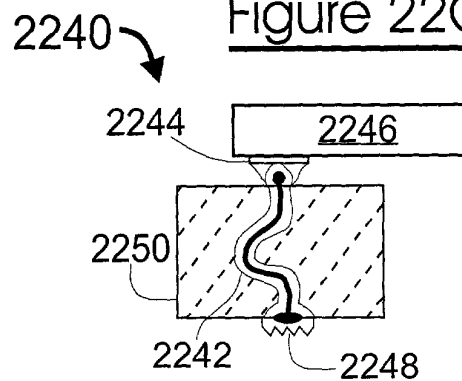
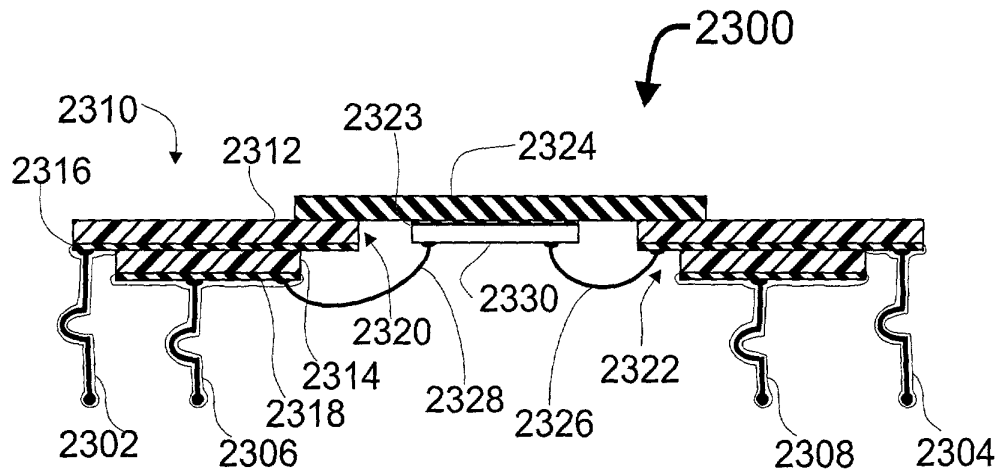


Figure 22C



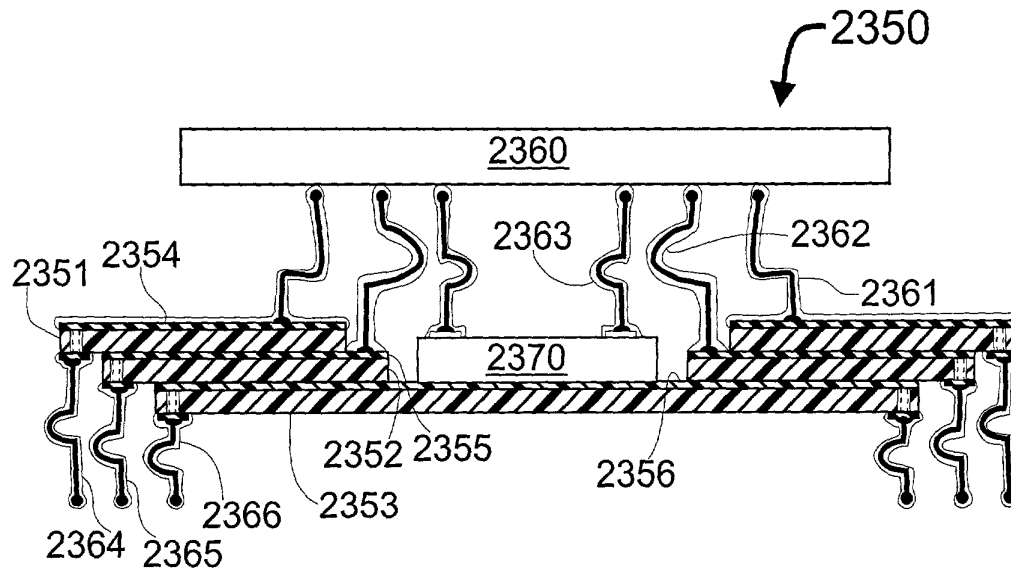
36/60

Figure 23A



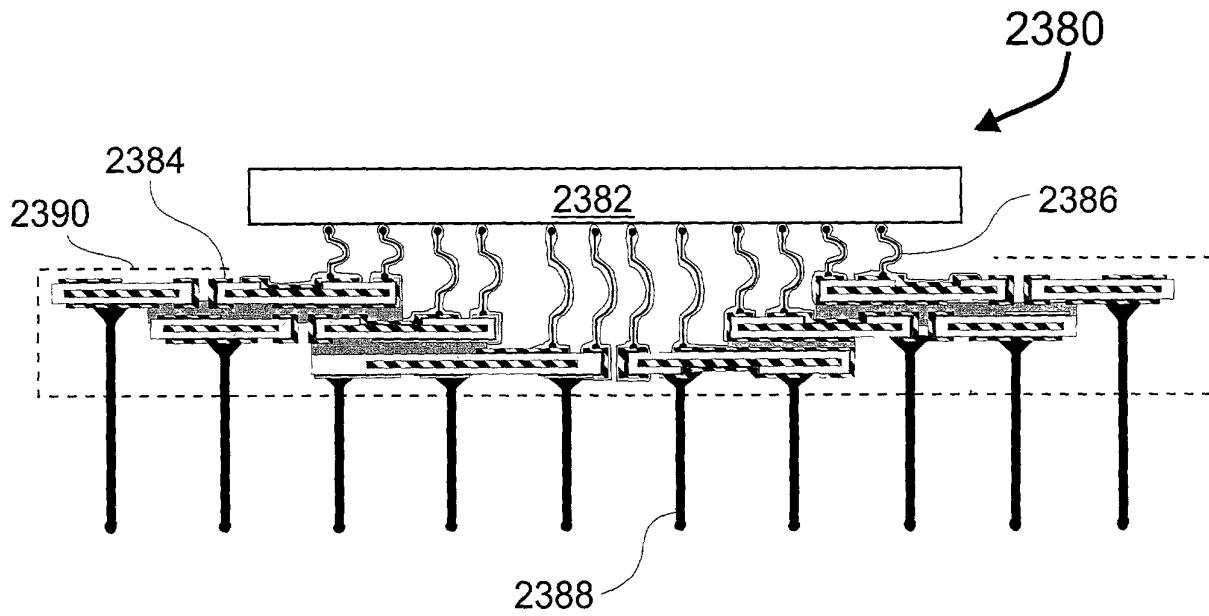
37/60

Figure 23B



38/60

Figure 23C



39/60

Figure 24A

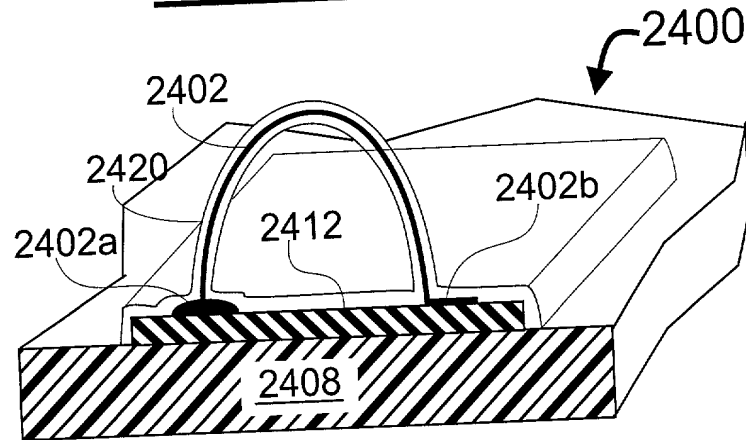
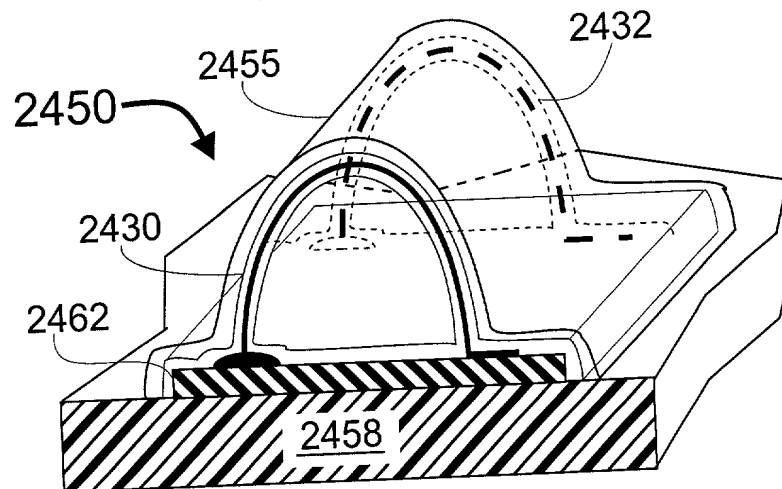


Figure 24B



40/60

Figure 24C

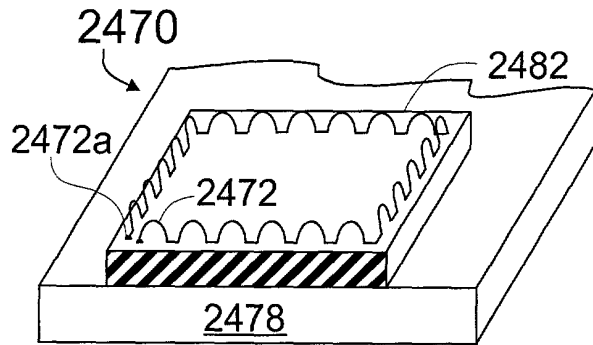


Figure 24D

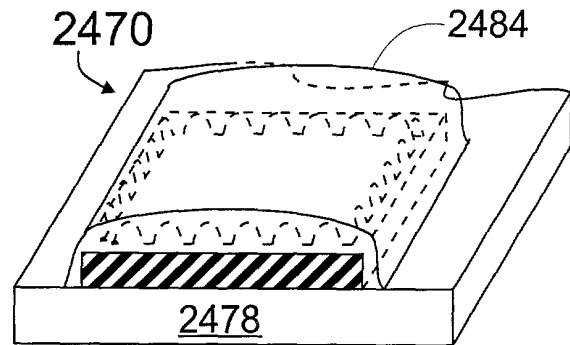
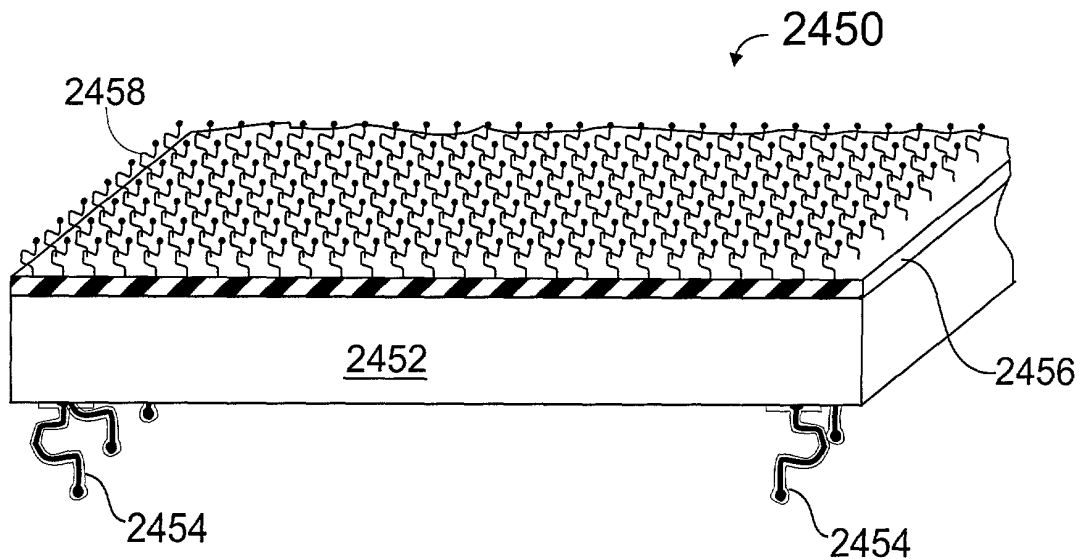
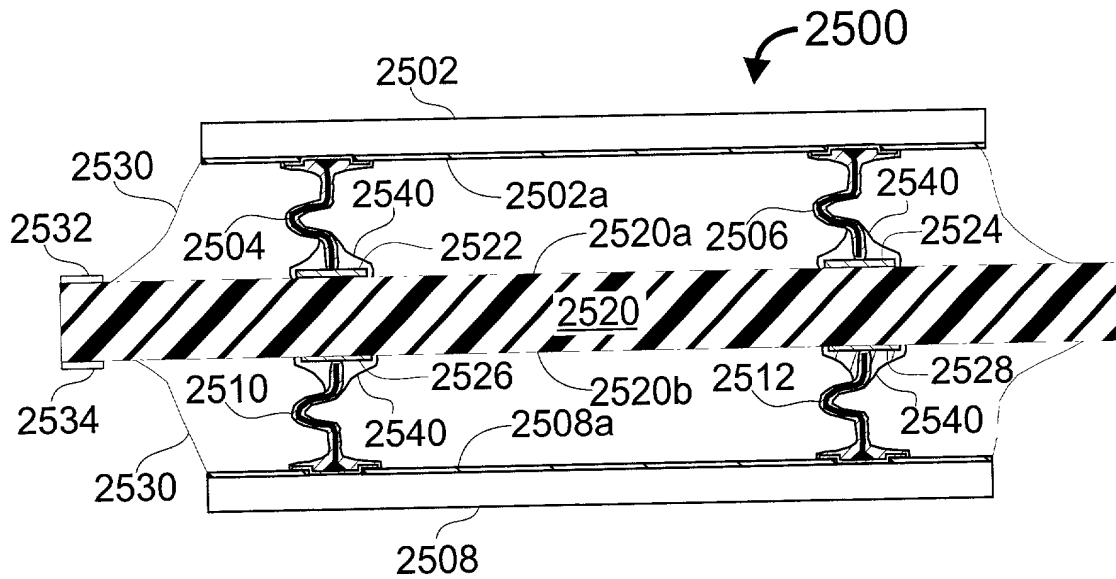


Figure 24E







42/60

Figure 26

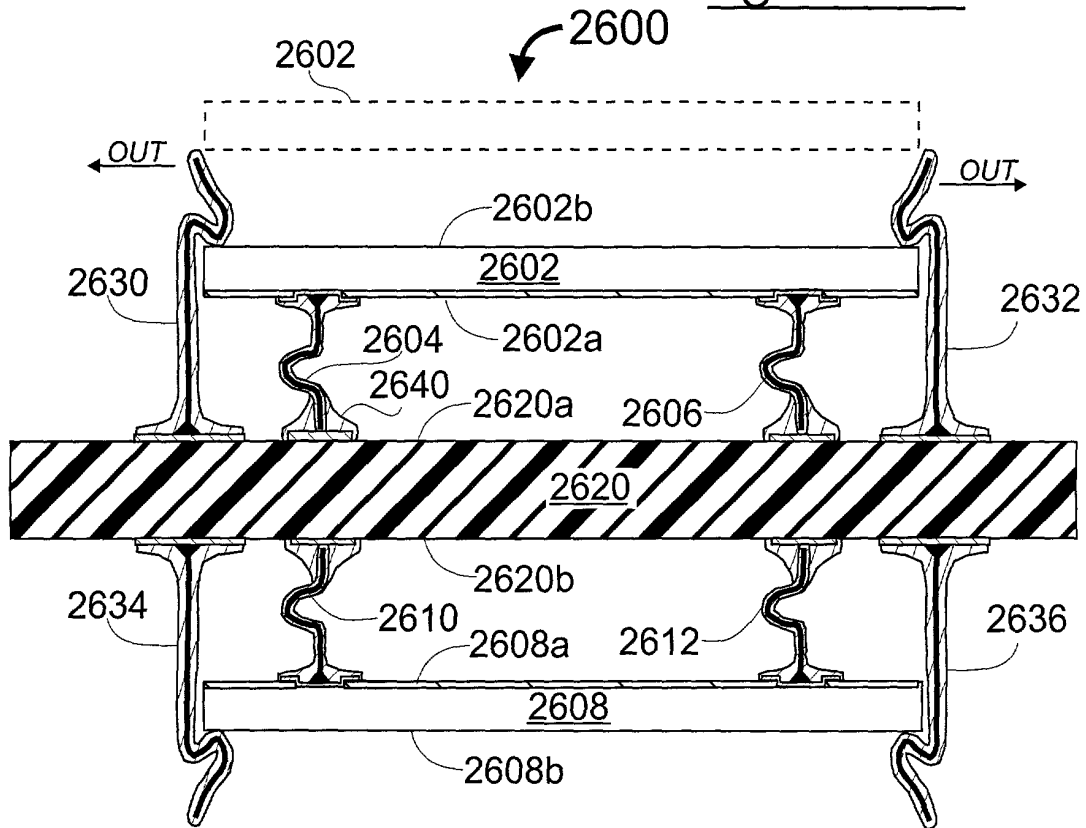
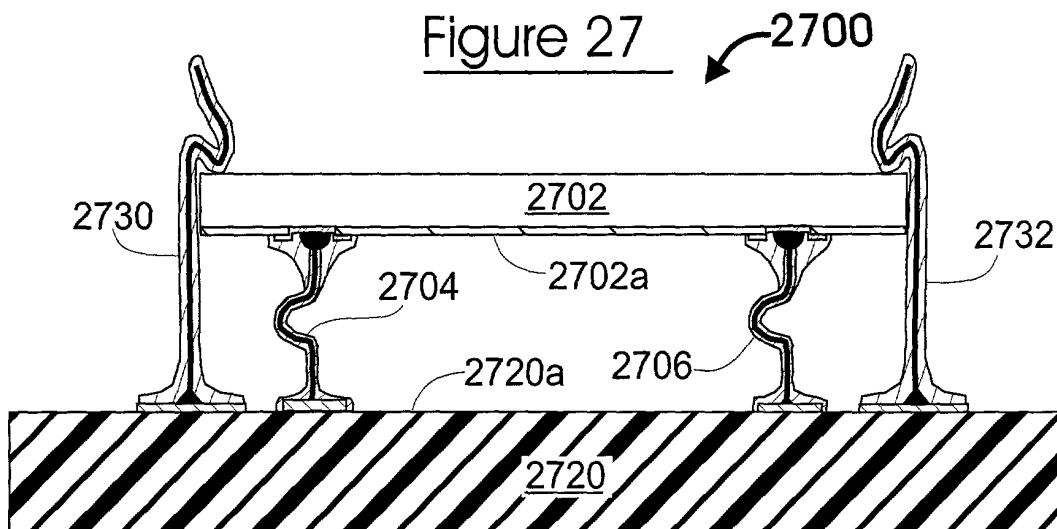


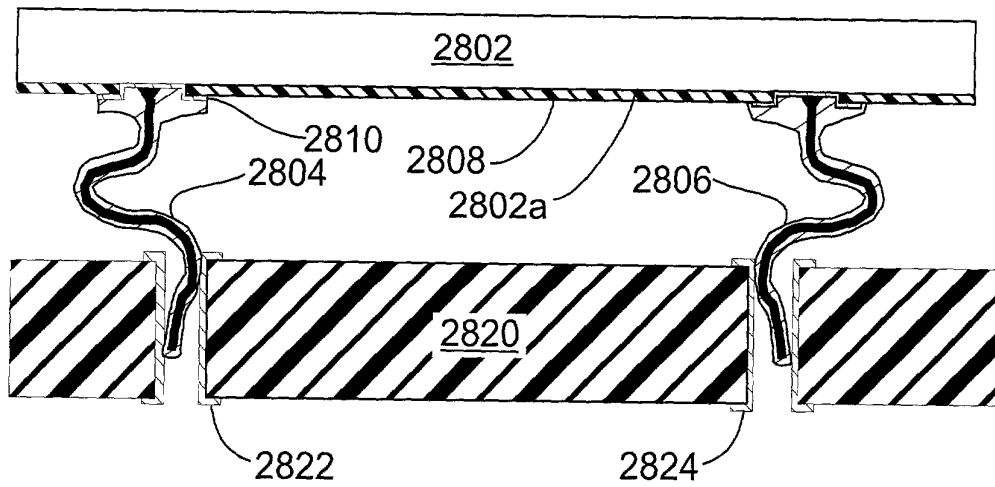
Figure 27

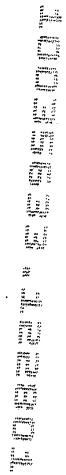
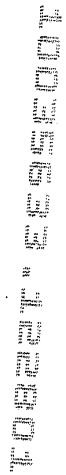


43/60

Figure 28

3000



[illegible][illegible]

45/60

Figure 31

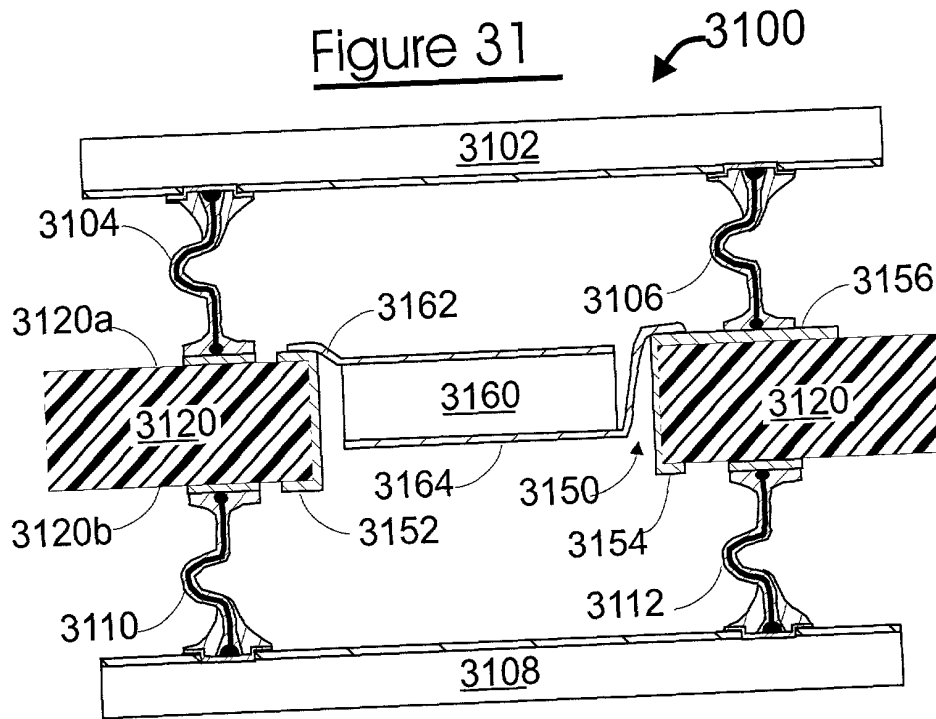
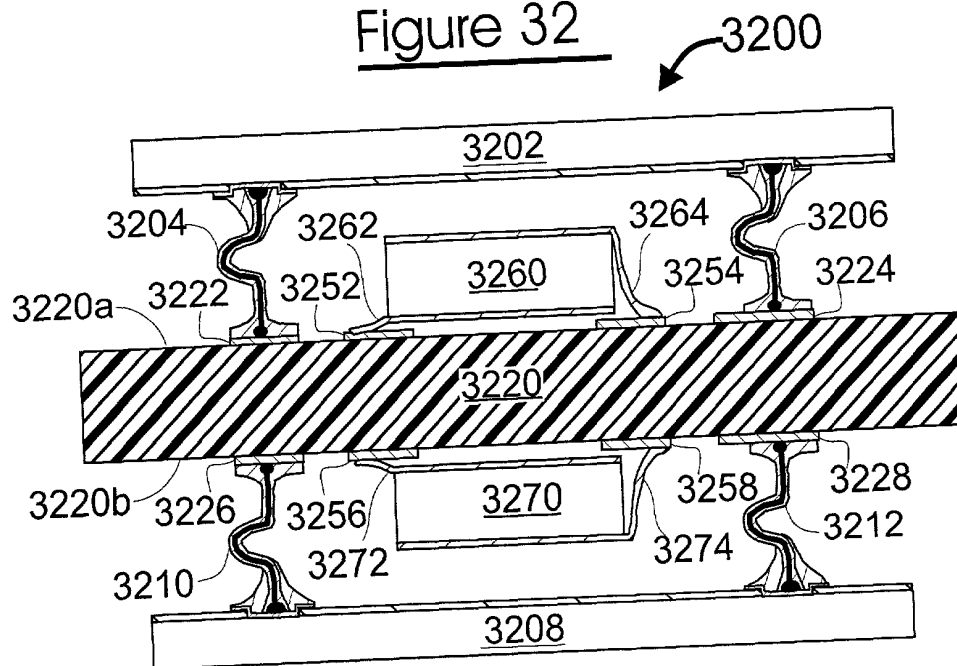
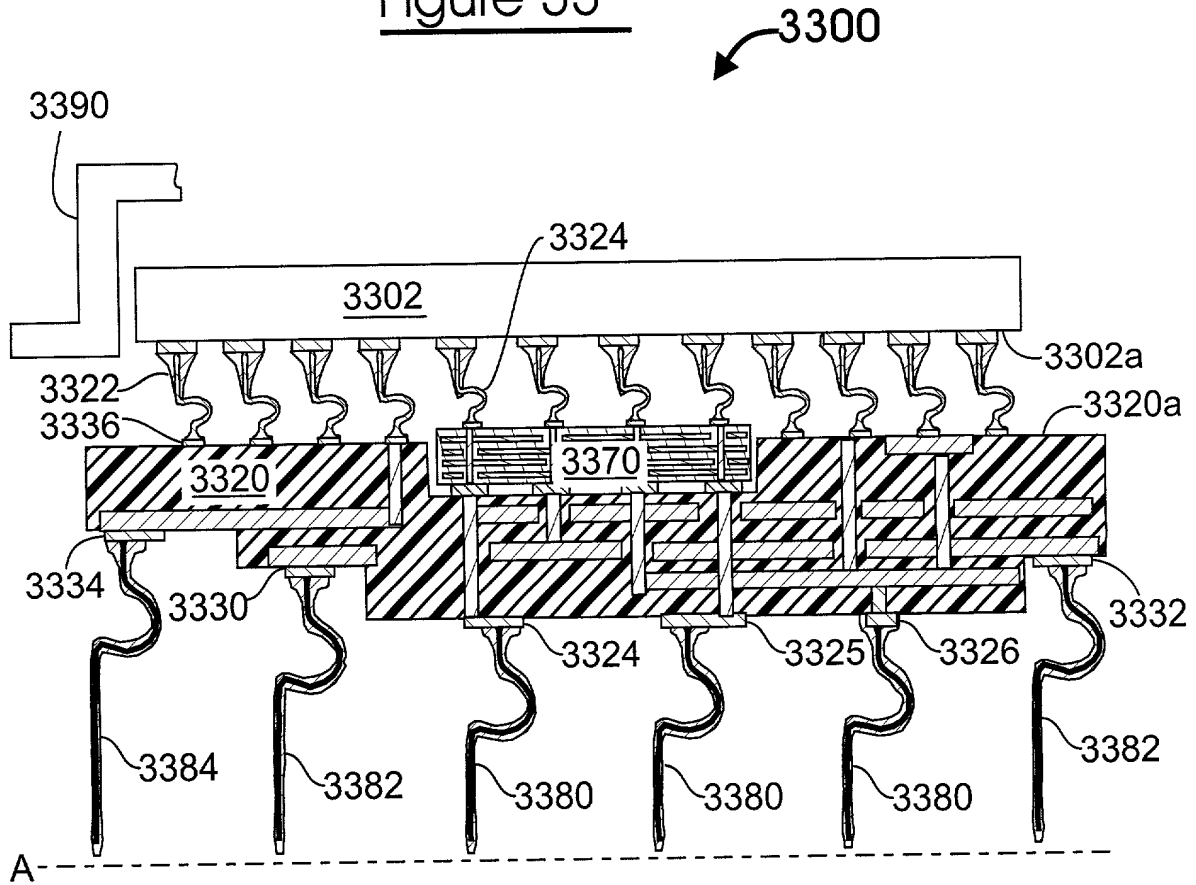


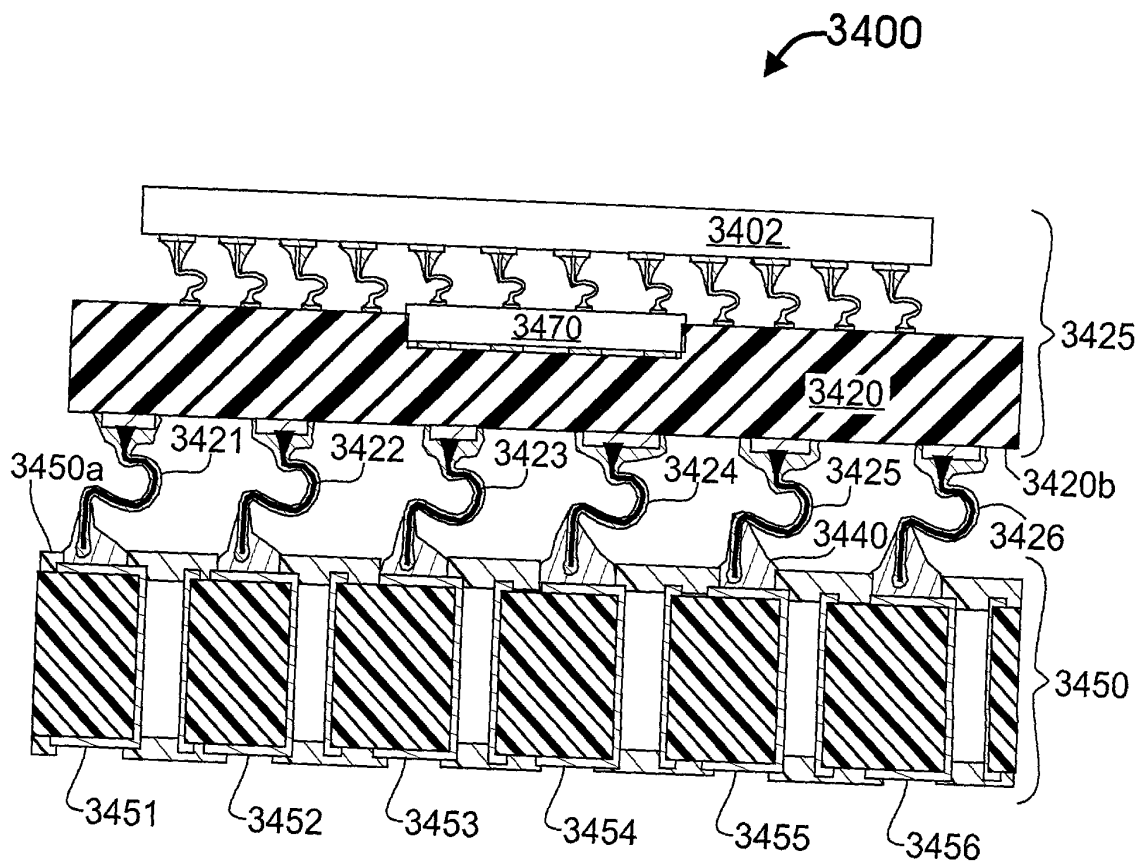
Figure 32



46/50

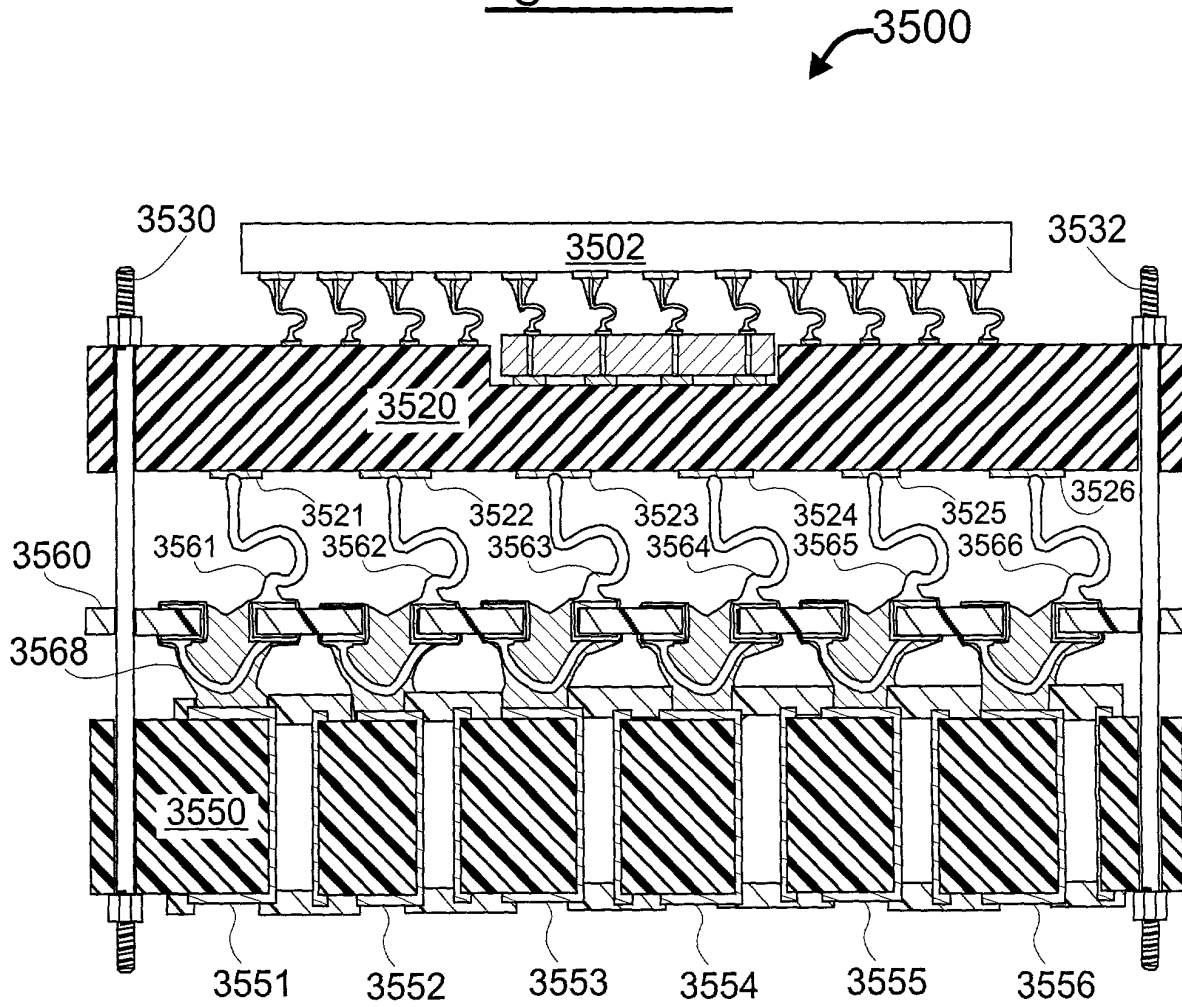
Figure 33





48/60

Figure 35





49/60

Figure 36A

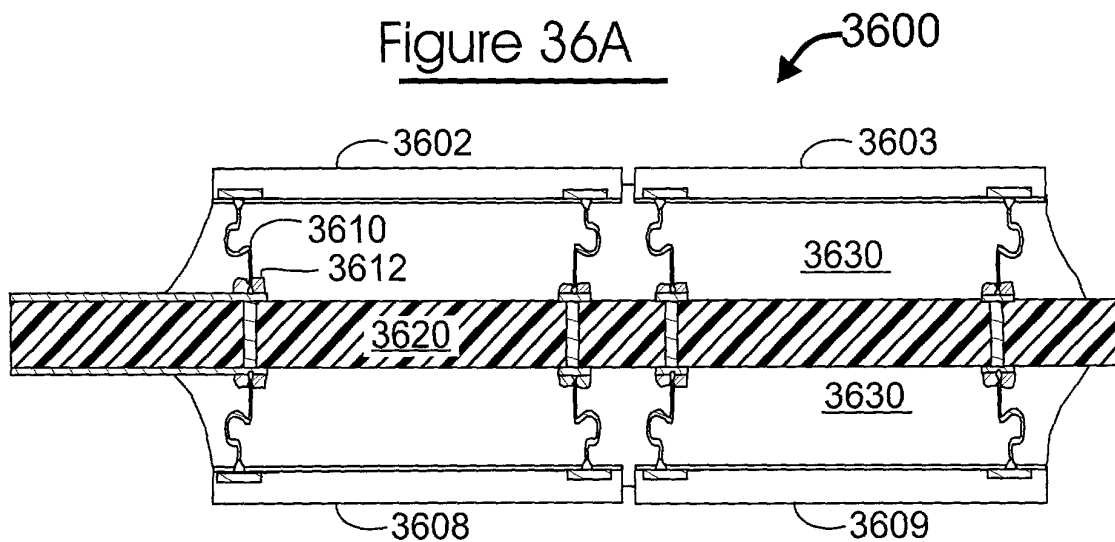


Figure 36B

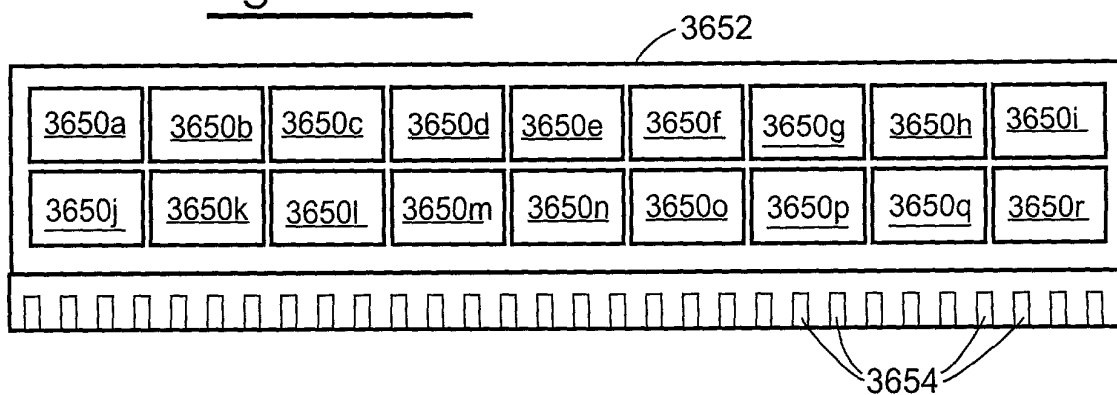
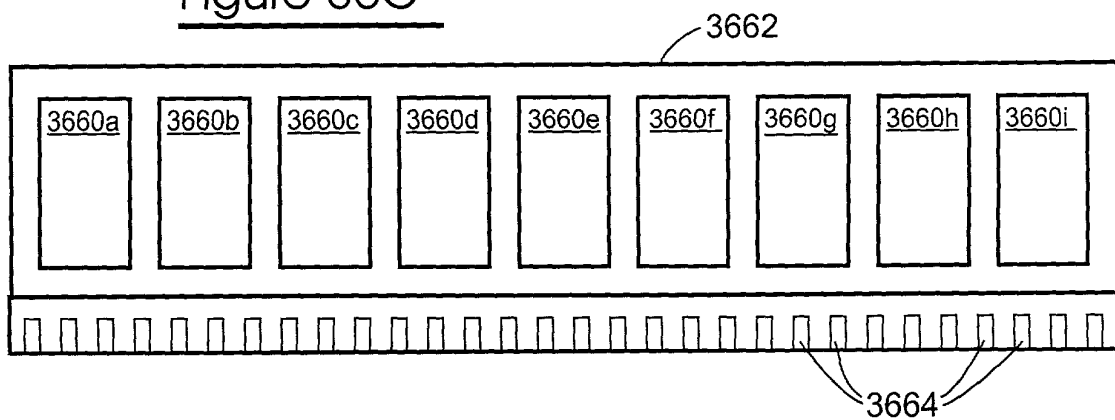


Figure 36C



50/60

Figure 37

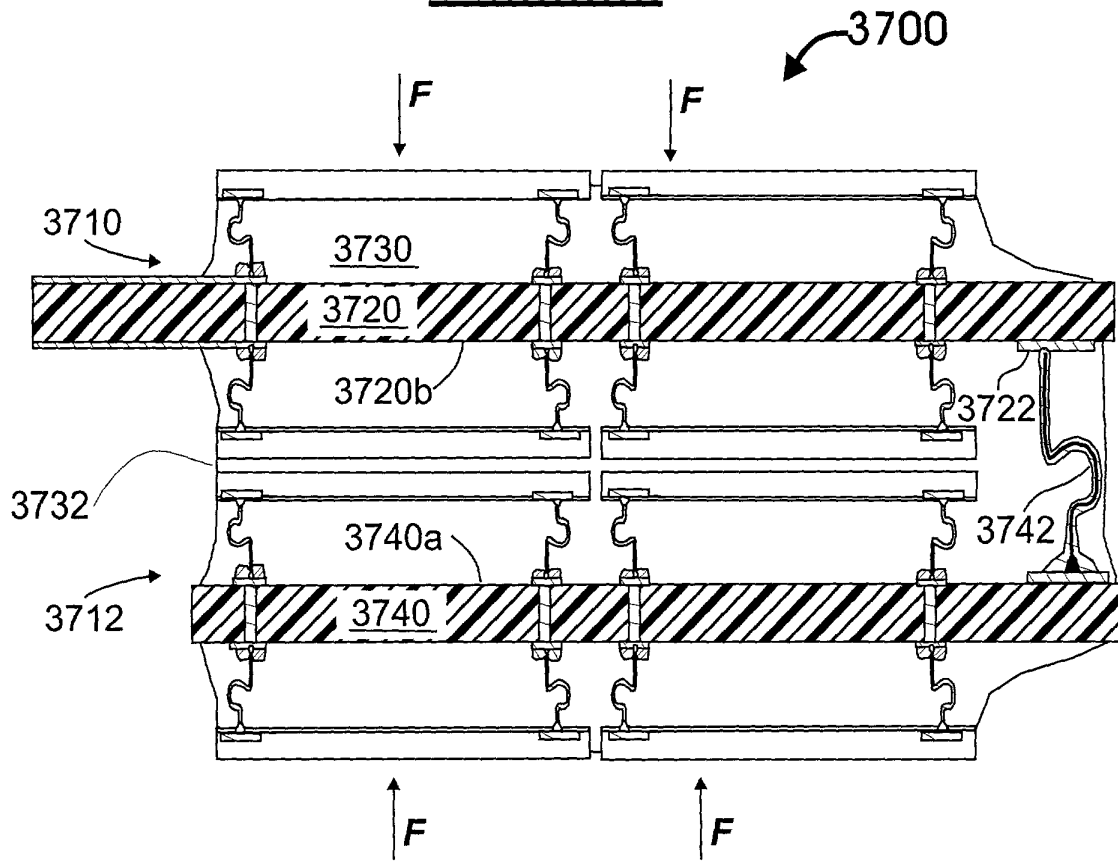


FIG. 37

51/60

Figure 38

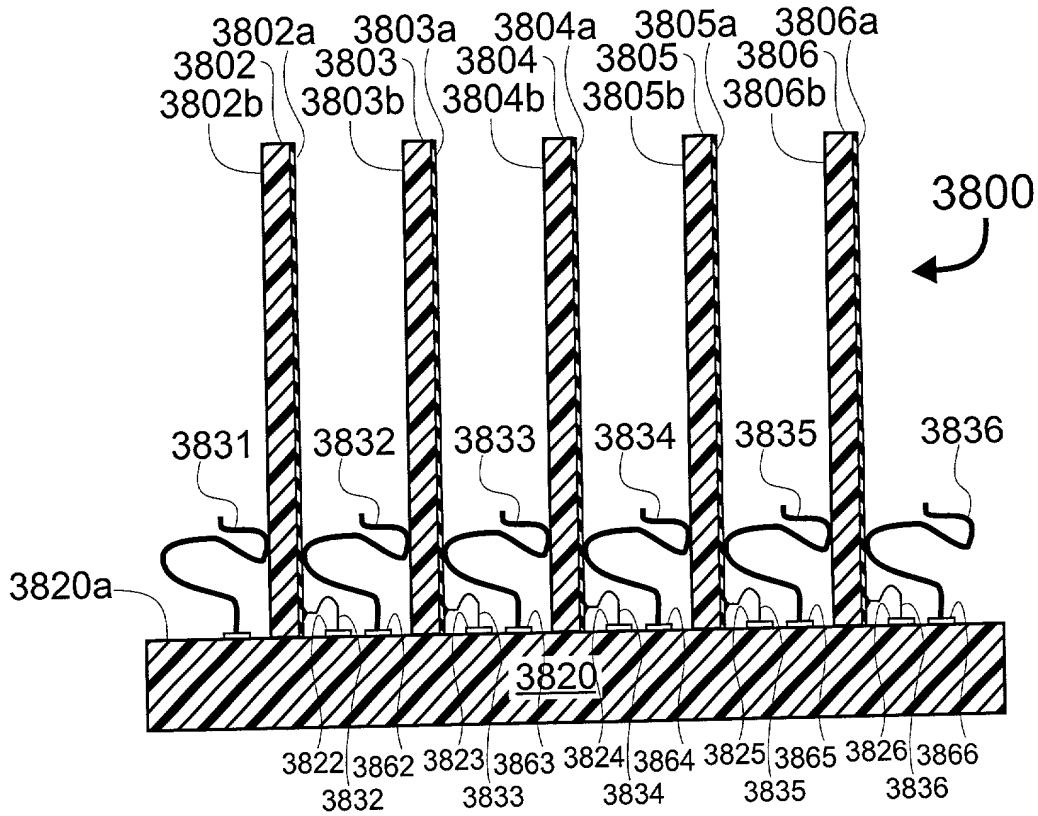
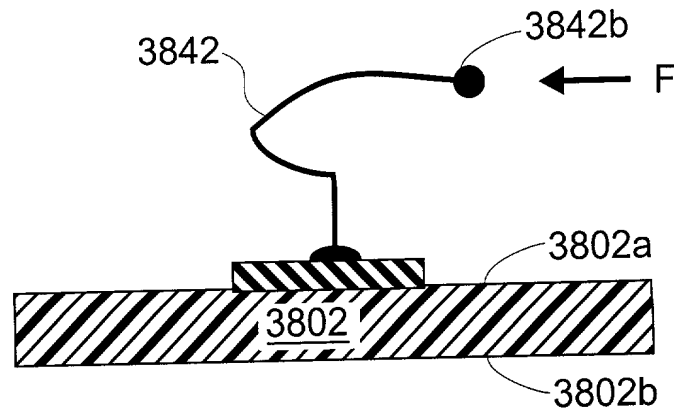


Figure 38A



52/60

Figure 39

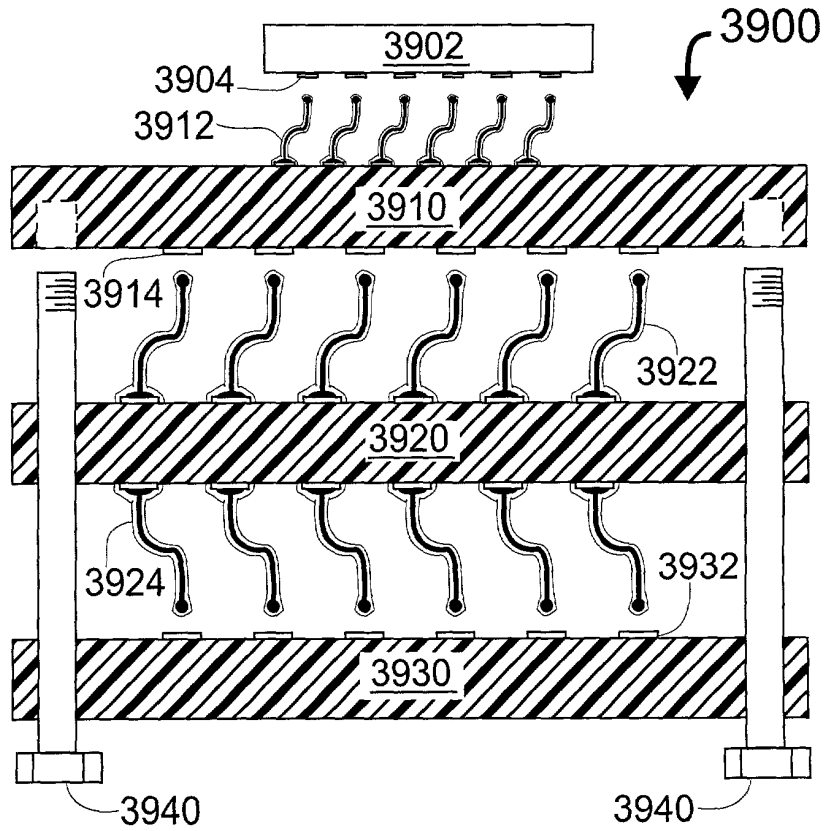
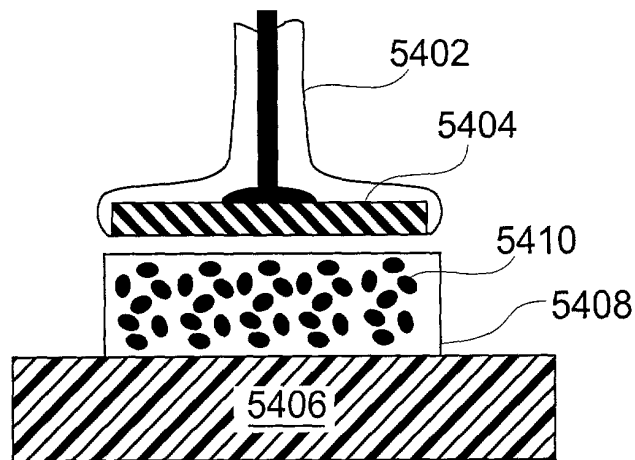


Figure 54



53/60

Figure 40A

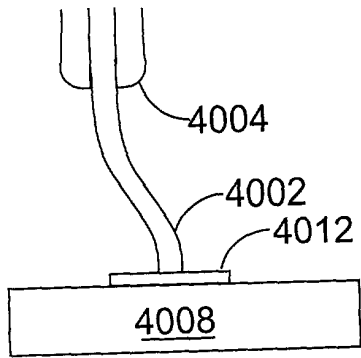


Figure 40B

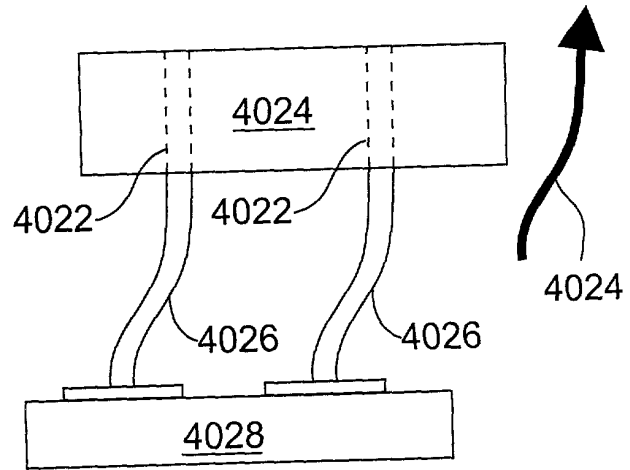


Figure 53A

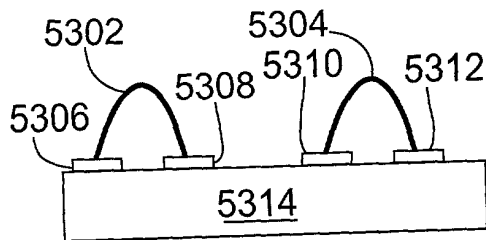
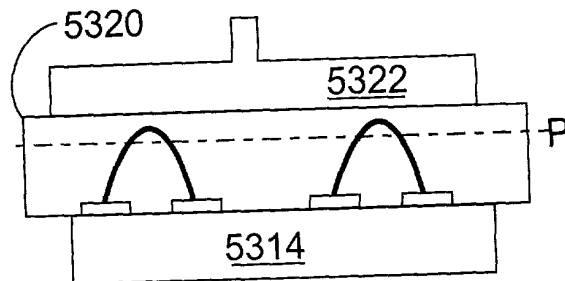


Figure 53B



54/60

Figure 41A

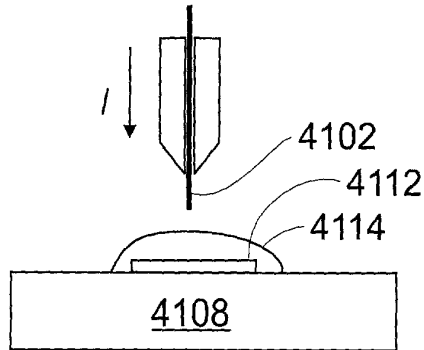


Figure 41B

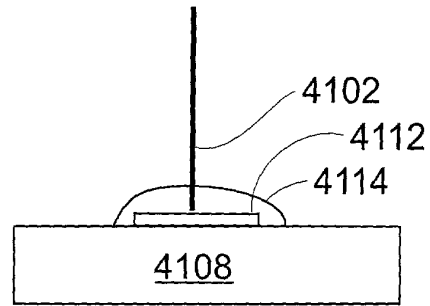


Figure 41C

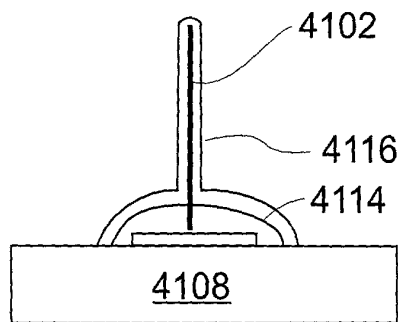


Figure 42

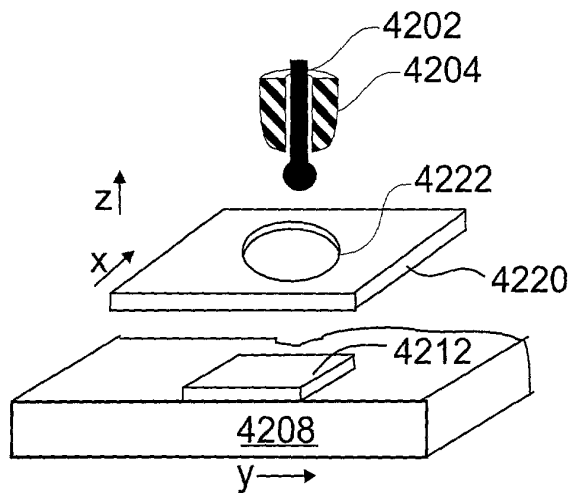


Figure 42A

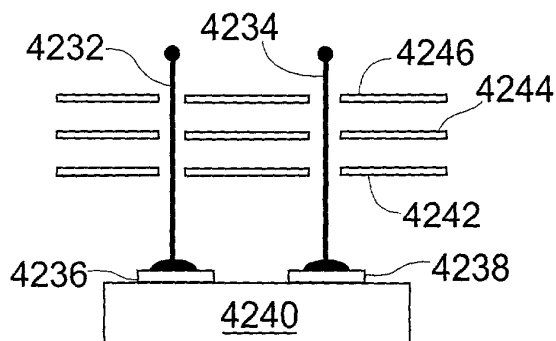
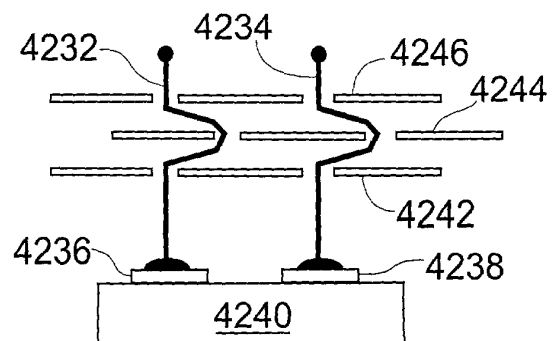


Figure 42B



55/60

Figure 43A

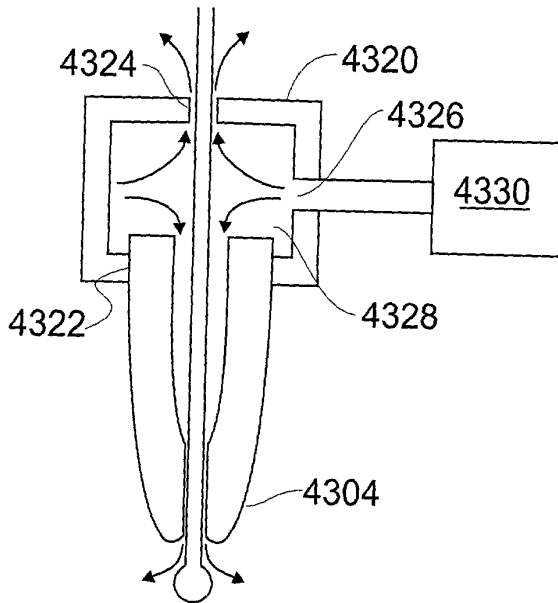


Figure 43B

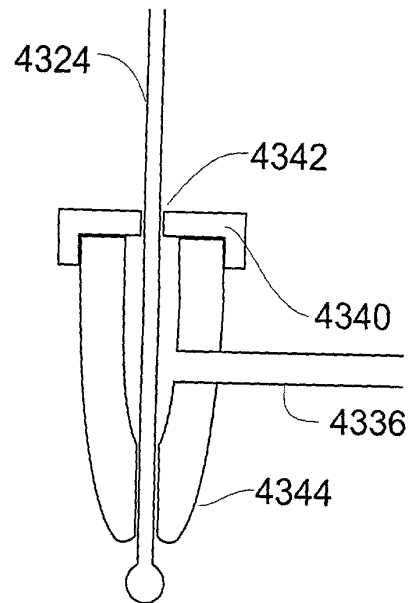
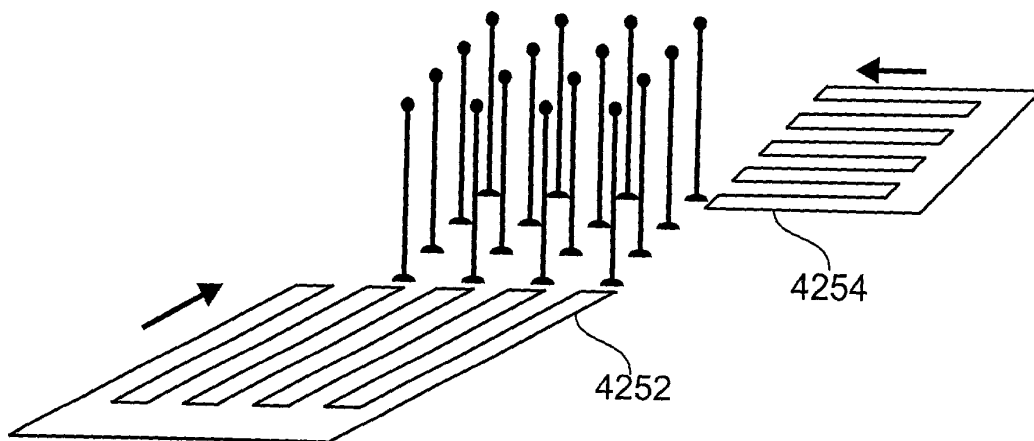


Figure 42C



56/60

Figure 44

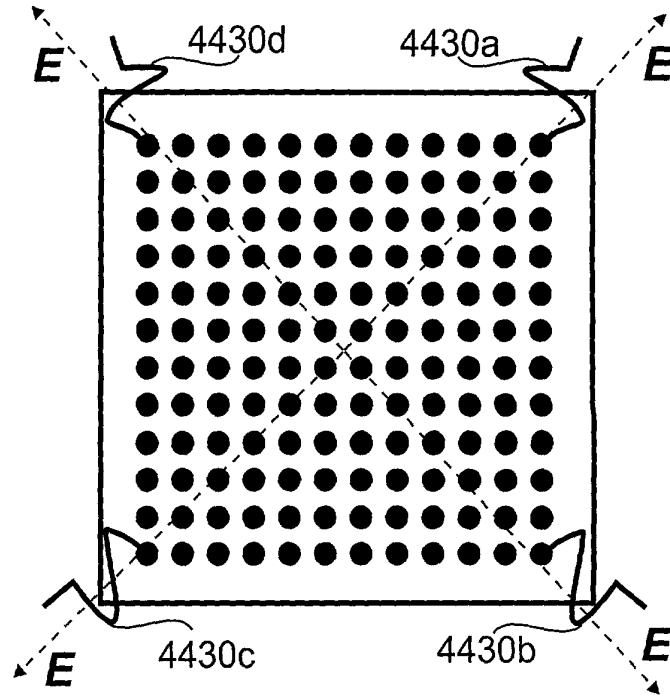


Figure 45

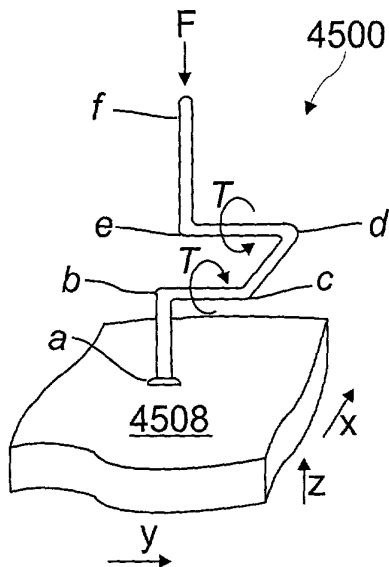
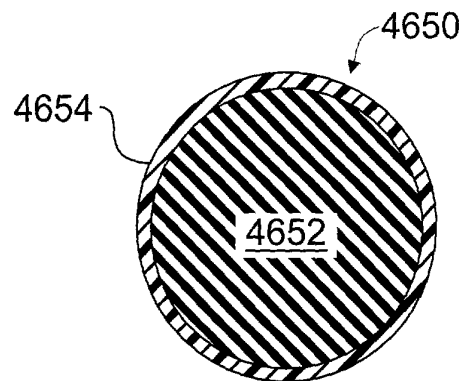


Figure 46G  
 PRIOR ART





57/60

Figure 46A

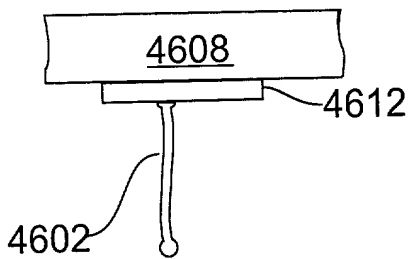


Figure 46B

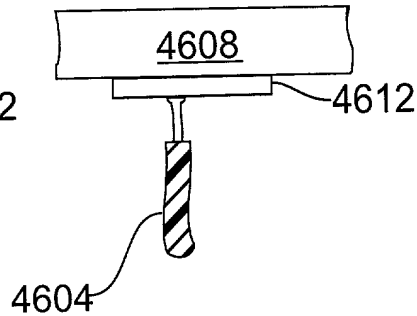


Figure 46C

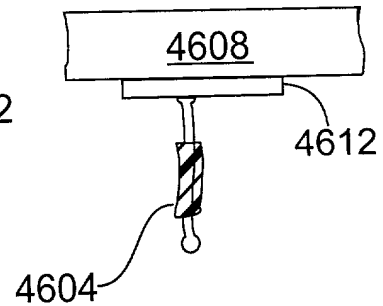


Figure 46D

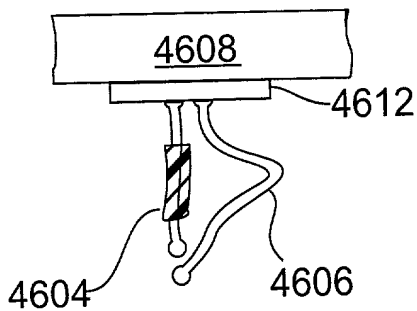


Figure 46E

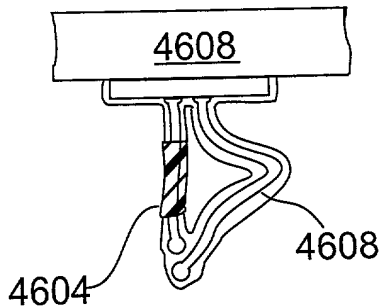


Figure 46F

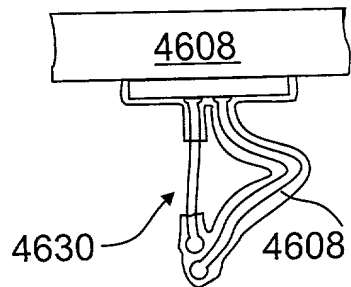


Figure 53C

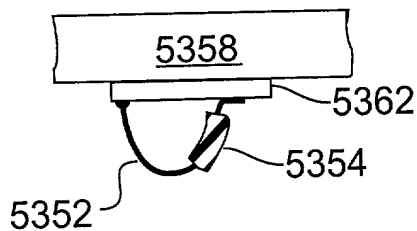


Figure 53D

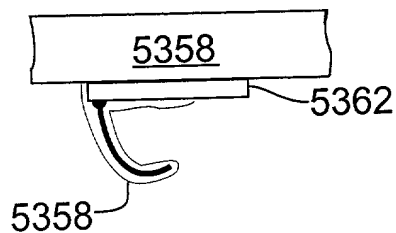


Figure 47

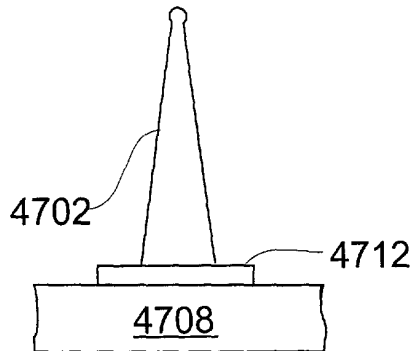


Figure 48A

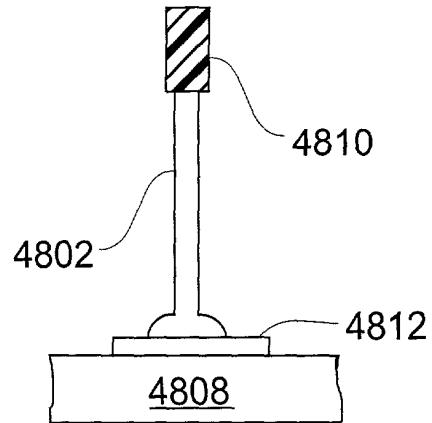


Figure 48B

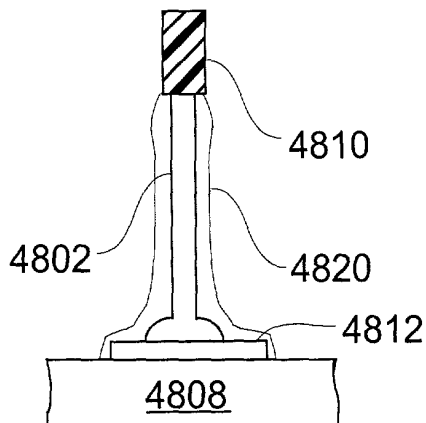


Figure 48C

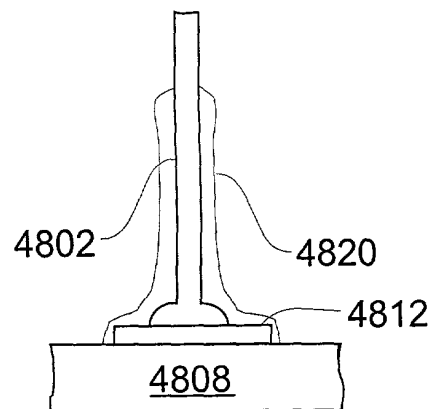


Figure 48D

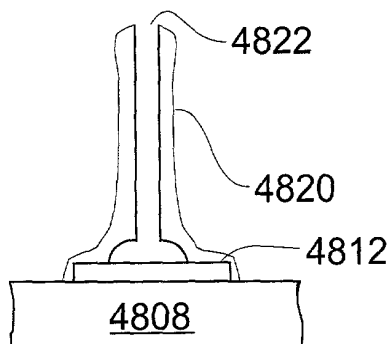
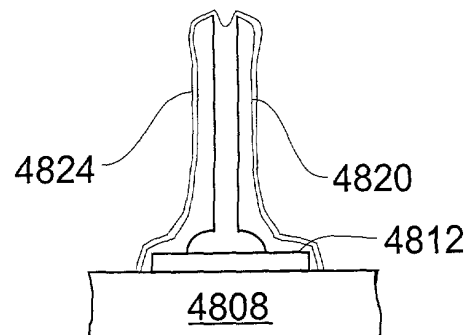


Figure 48E



59/60

Figure 49A

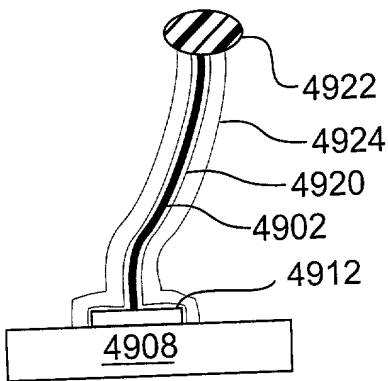


Figure 49B

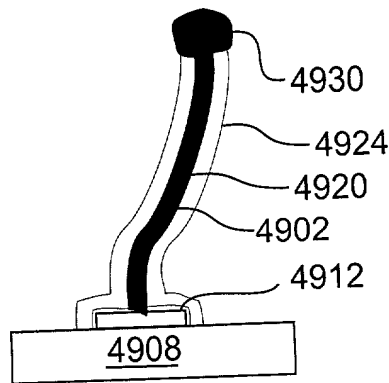


Figure 49C

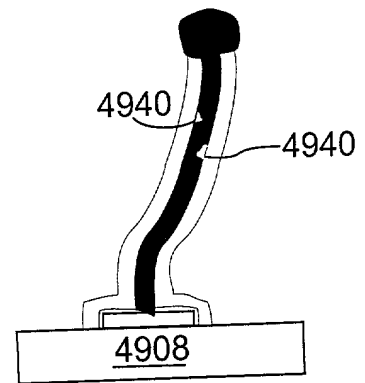


Figure 50A

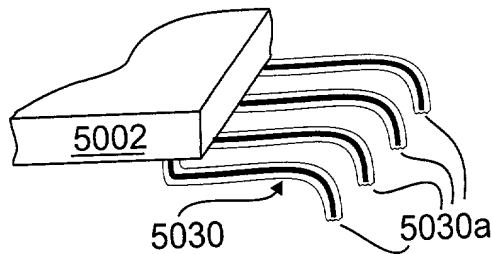


Figure 50B

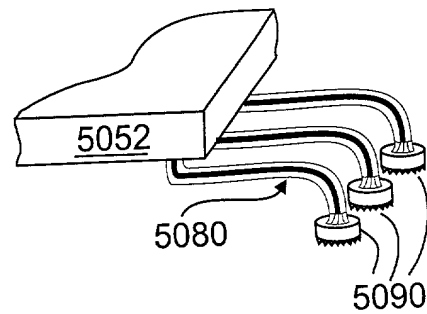


Figure 51A

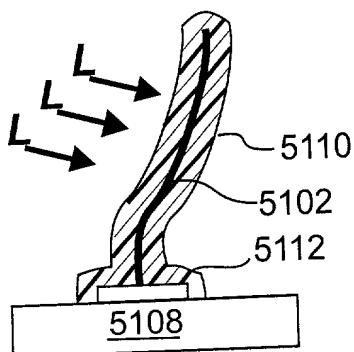


Figure 51B

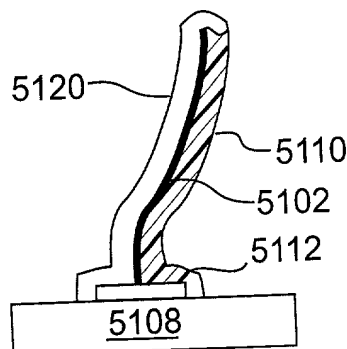
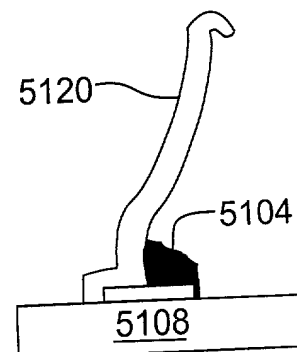


Figure 51C



60/60

Figure 52A

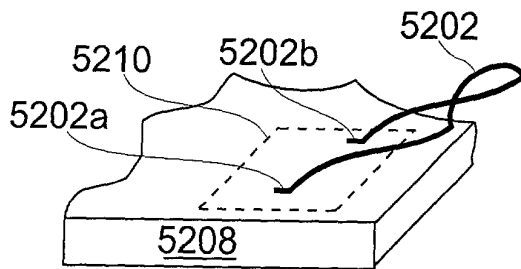


Figure 52B

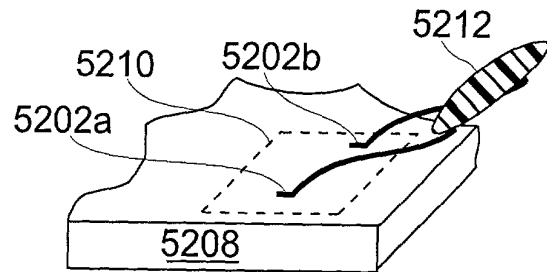


Figure 52C

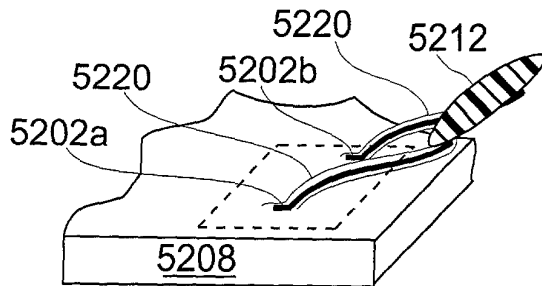


Figure 52D

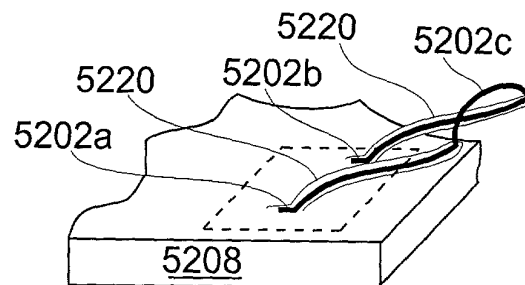


Figure 52E

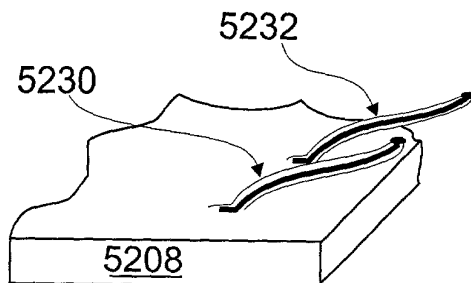


Figure 52F

